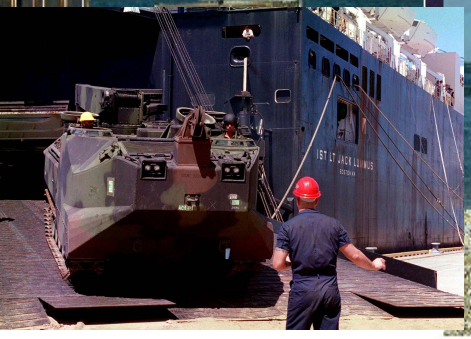
MPF PROGRAM REVIEW ALOC 1-04



20 OCT 03

AGENDA

- MPF OVERVIEW
- MPF FUTURE
- 2015 MEB
- MPF FUTURE ANALYSIS OF ALTERNATIVES (AOA)
- SEABASE CONNECTORS
- GEO-PREPOSITIONING ISSUES (NALMEB)
- QUESTIONS/DISCUSSION

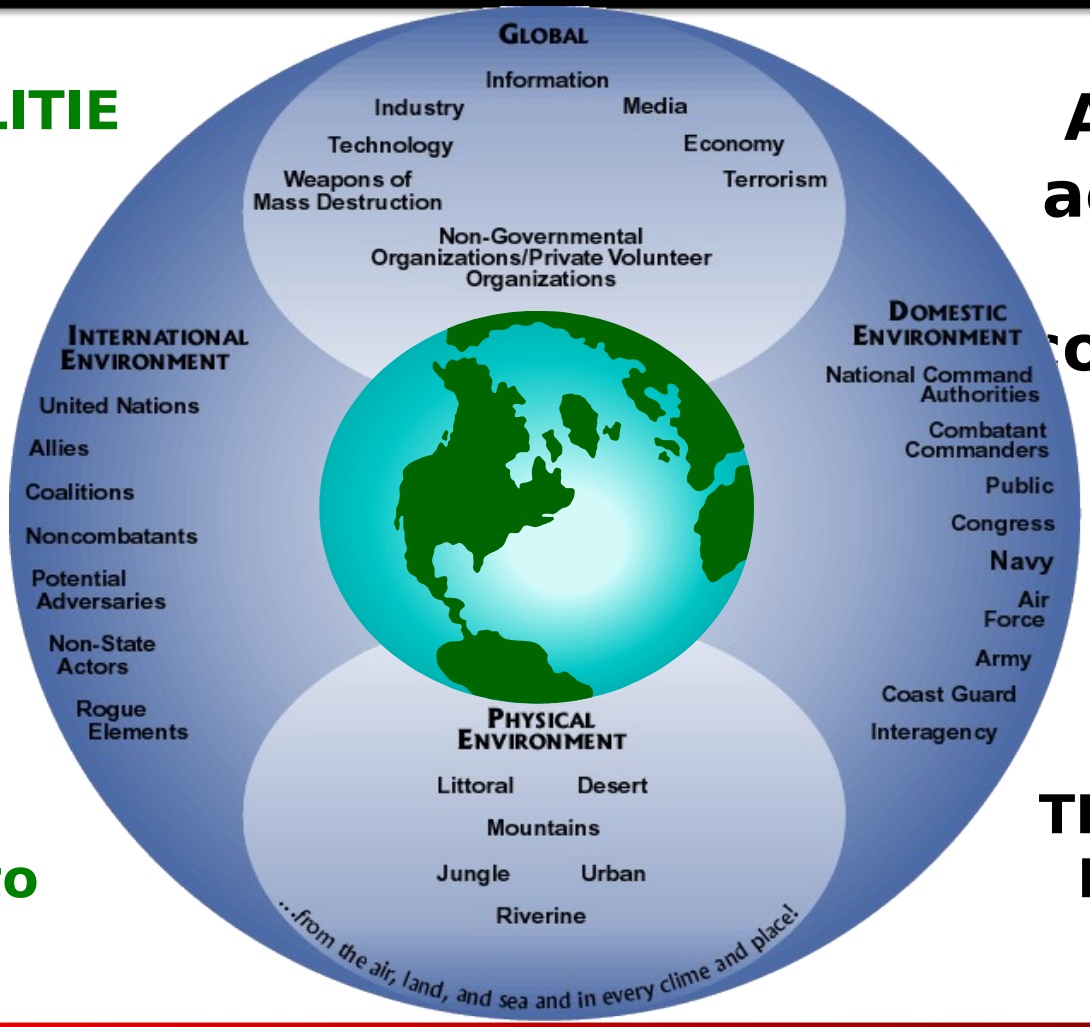
CURRENT MPF OVERVIEW

STRATEGIC ENVIRONMENT OPPORTUNITIES AND CHALLENGES…

GLOBAL RESPONSIBILITIES

GLOBAL INTERESTS

Expect adversaries to evolve



Assured access to global commerce

Asymmetric threats

TECHNOLOGY DIFFUSION

INCREASING DEMANDS FOR EXPEDITIONARY CAPABILITIES

ADVANTAGES OF AFLOAT PREPOSITIONING

- **MPSRONs have global reach and are strategically positioned providing the combatant commander:**
  - **Forward Presence**
  - **Crisis Response**
  - **Operational Range and Flexibility**
  - **Shaping Ability**

- **Minimal force protection requirements while afloat**
- **Maintains limited footprint and reliance on host nation support**
- **Follow on employment capability**
- **Interoperability**

ADVANTAGES OF AFLOAT PREPOSITIONING

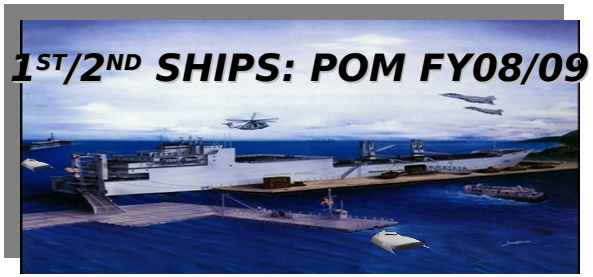
- Saves thousands of strategic lift sorties
  - 2000+ C17-equivalent sorties to ‘lift’ a MPSRON
- Dual role capability
  - Facilitates deployment of USMC forces
  - Post offload: common user lift
- MPF equipment
  - Modernized in conjunction with operating forces
  - Maintained in high state of readiness

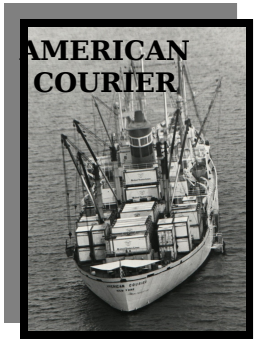
MPF CAPABILITY GROWTH

Sea Basing

Airfield & Staging Area Required

Airfield, Port Staging Area Required





NTPF 1981

MPF 1984

MPF (E) 2000-2002

MPF FUTURE 2013

USMC MPF MARINE EXPEDITIONARY BRIGADE FORCE STRUCTURE
(PEOPLE, CAPABILITY AND MAJOR EQUIPMENT)

761

2315

6082

5243

Ground Combat Element

- Infantry Regiment
- 58 M1-A1 Tanks
- 54 TOWs
- 109 AAV's
- 30 Howitzers
- 25 LAVs

Aviation Combat Element

- 73 Fixed Wing Aircraft (Self Deploy)
- 67 Helicopters (Strategic Lift)

Combat Service Support Element

- Supply/Maintenance
- Motor Transport
- Engineer
- Medical/Dental
- Landing Support

MPF PROGRAM

Ready and Capable

- **Equipment and 30 Days Supply**
- **Supports three 15,000 - PAX MAGTFs (MEBs)**

MPSRON SHIP CAPABILITIES

MAERSK

AMSEA

WATERMAN

- **Self-Sustained In-stream Discharge**
- **Bulk Liquid 2 Miles Offshore**
- **Pierside Discharge**
- **Limited Selective Offload**
- **Helo Platform (CH-53)**
- **Billeting for 90+ Marines**
- **Humidity and Temperature Controlled Spaces**

MPF (ENHANCEMENT) CAPABILITIES

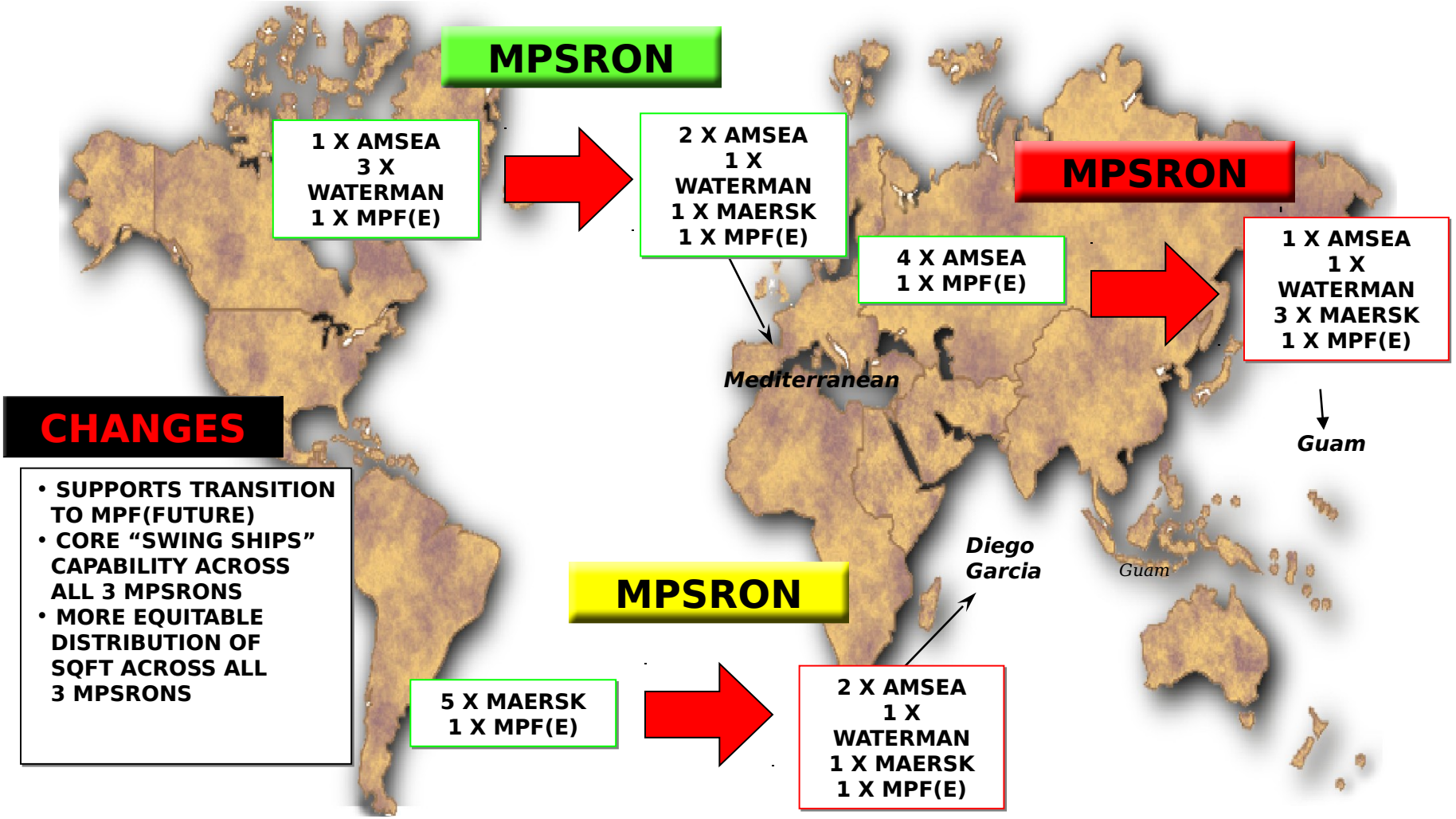
- **Added one ship to each MPF Squadron providing:**
  - **Naval Mobile Construction Battalion**
  - **Expeditionary Airfield**
  - **Naval Fleet Hospital**
  - **A Reduction of lift for the Fly-in-Echelon**

MARTIN

STOCKHAM

WHEAT

APPROVED MPSRON REALIGNMENT BY LOCATION

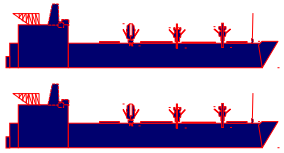


CHANGES

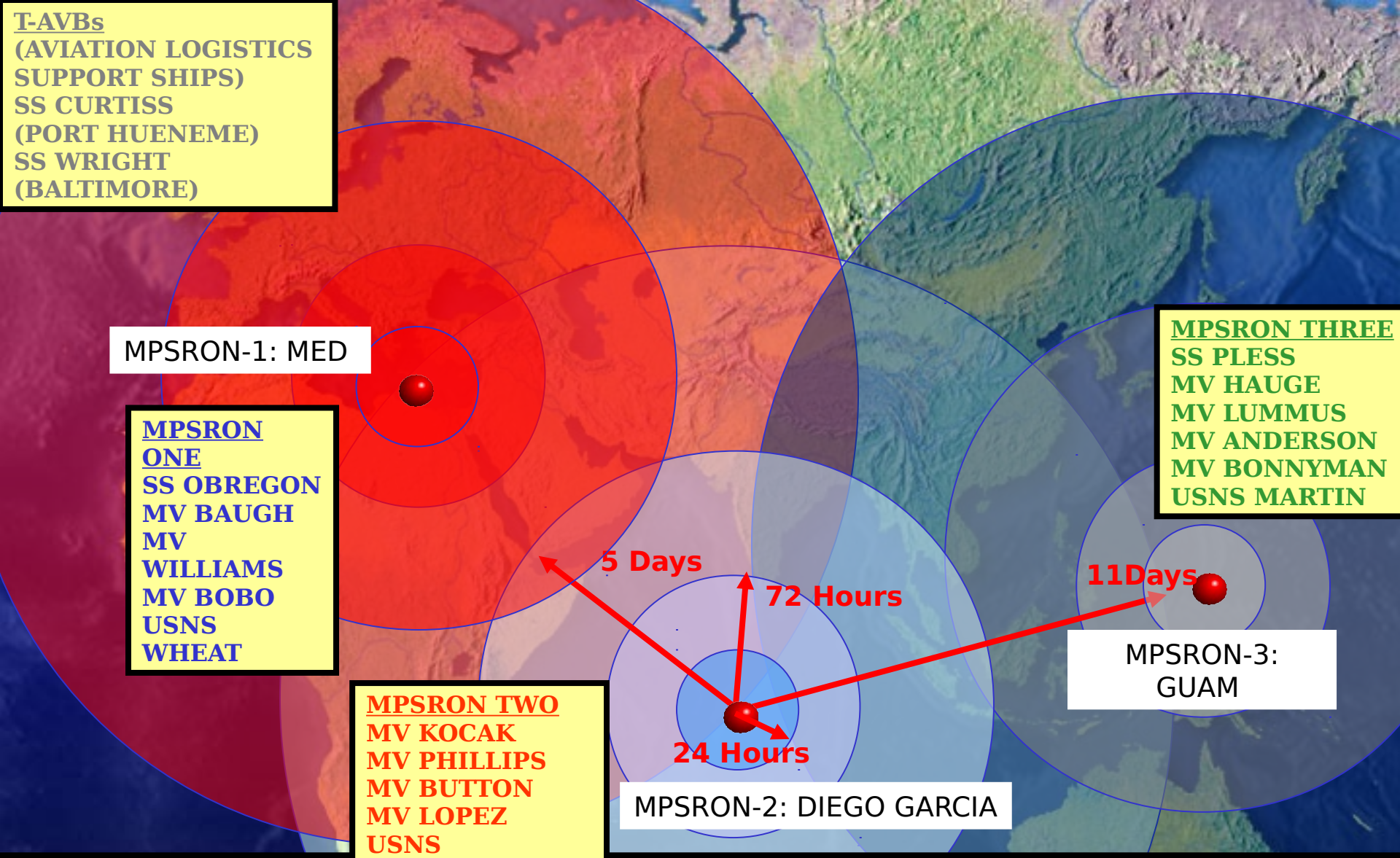
- SUPPORTS TRANSITION TO MPF(FUTURE)
- CORE "SWING SHIPS" CAPABILITY ACROSS ALL 3 MPSRONS
- MORE EQUITABLE DISTRIBUTION OF SQFT ACROSS ALL 3 MPSRONS

APPROVED MPSRON REALIGNMENT BY CAPABILITY

CORE "SWING-SHIPS" (MIRROR IMAGED)

TYPE	MPS-1	MPS-2	MPS-3
AMSEA			
WATERMAN			
MAERSK			
MPF(E)			
AMSEA			
MAERSK			

** MORE EQUITABLE SPREAD OF SQFT ACROSS MPSRONS



MPF SQUADRONS

MPF NOTIONAL FORCE CLOSURE

Ships

Transit | **Offload**

0 — 6 — 10

Survey Liaison Recon Party

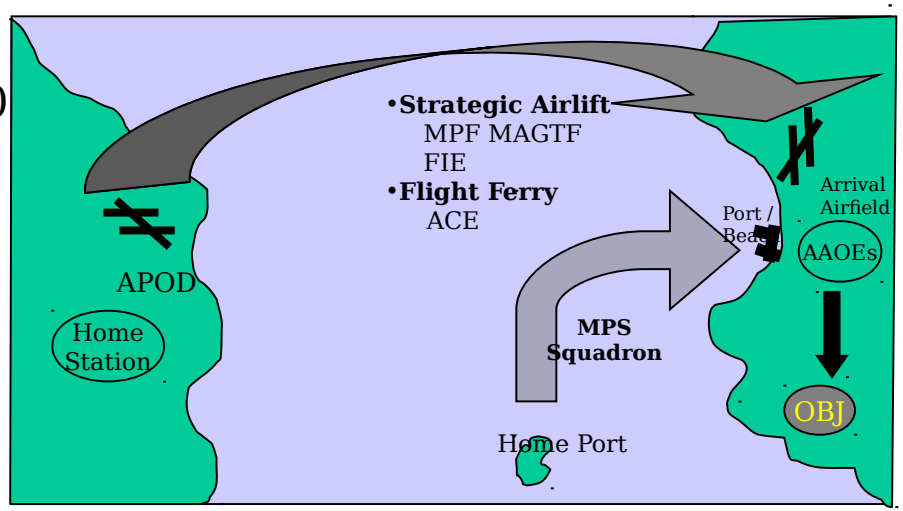
Deploy | **Prepare Port**

Offload Preparation Party

Deploy | **Prepare Cargo**

Advance Party

Deploy



Main Body

Deploy

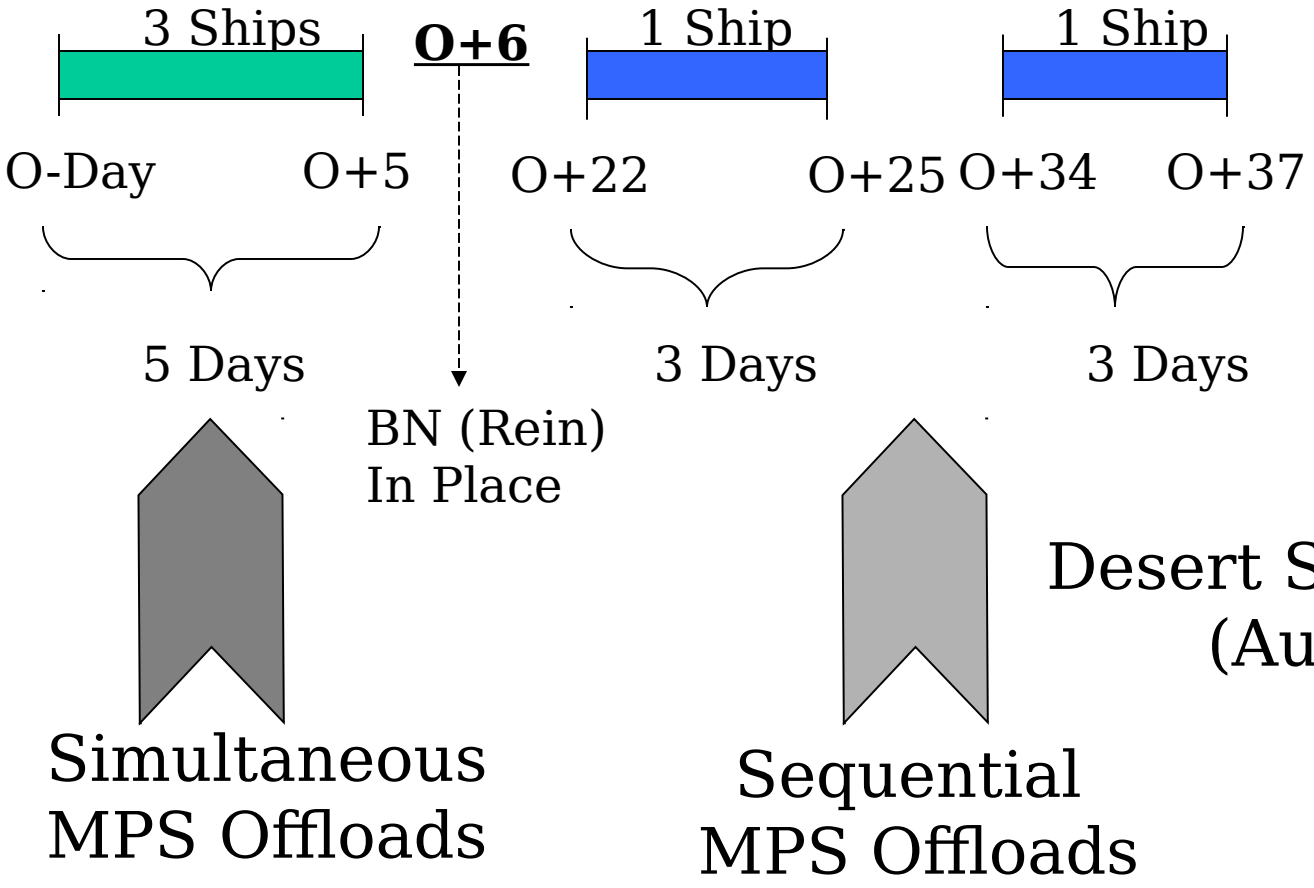
Arrival and Assembly Operations

Fully Operational

17

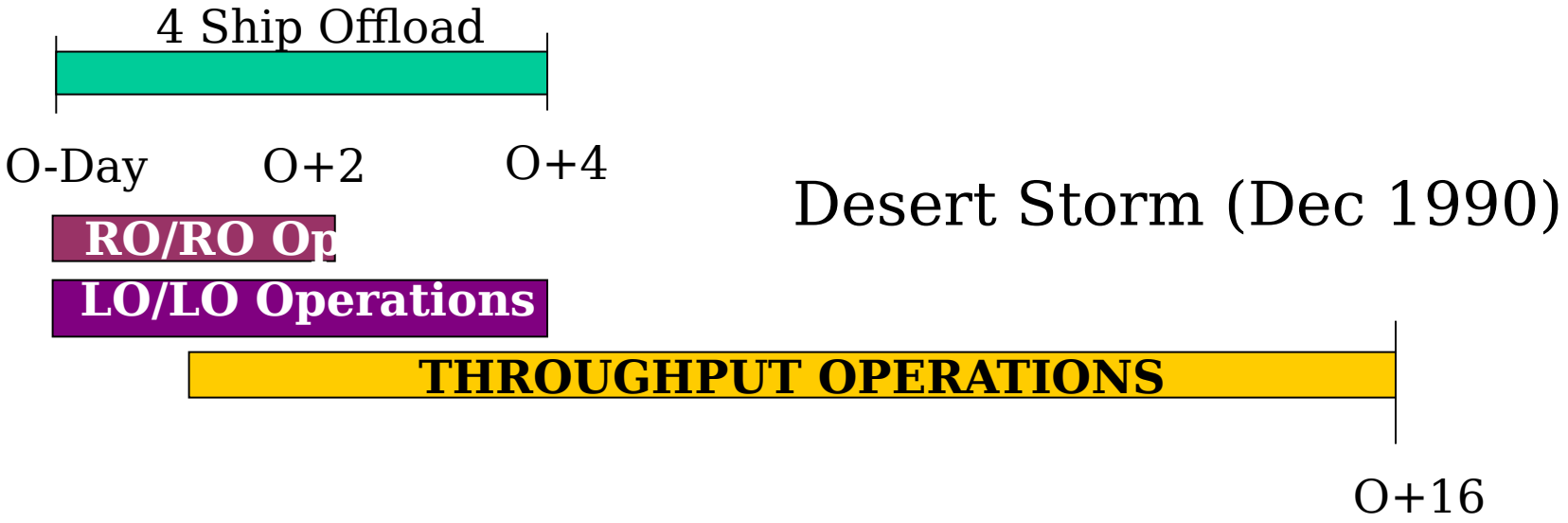
0 — 2 — 4 — 6 — 8 — 10 — 12 — 14 — 16 — 18

FORCE CLOSURE-THROUGHPUT: MPSRON-2 (1990)



Desert Shield/Storm
(Aug 1990)

FORCE CLOSURE-THROUGHPUT: MPSRON-1 (1990)



Desert Storm (Dec 1990)

MPF MAINTENANCE CYCLE

- **Concept**
  - **All Equipment Offloaded and Maintained at Blount Island.**
  - **36 Month Rotation Cycle for Entire MPF**
  - **All 16 Ships, 1 Ship at a Tim**
  - **Offload to Backload:**
    60 Days Per Ship
  - **Ammo shipped for rework**
- **Critical for MPF Readiness**

MPF Future And The Power Of Seabasing…

MPF FUTURE TIMELINE

58 M1A1 Tanks
109 AAVs
25 LAVs
30 155mm Howitzers
73 Fixed Wing Aircraft
67 Rotary Wing Aircraft
30 Days Sustainment

Adds (3) Fleet Hospitals

Adds (3) Navy Mobile Construction Battalions

Adds (3) Expeditionary Airfields

Near Term: Current MPF

- Operational Capability
- Forward Presence
- 13 Ships in 3 Squadrons
- Each Squadron supports a MEB of 17,000+ Marines
- Proven Force Enabler

Mid Term: MPF Enhancement

- Adds 3 Ships to each Squadron
- 1st Ship to Blount Island Jun 00
- Ships 2/3 Deliver in '01/02
- Additional Capabilities from Lessons Learned

Long Term

MPF FUTURE

1984 2000 200 2009 2011

MPF Ship Leases Expire

Capabilities Triad

- **Fast Deployment**
- **Sea Basing**
- **Reinforcement**

Concept Pillars

- **Force Closure**
- **ATF Interoperability**
- **Sustainment**
- **Reconstitution & Redeployment**

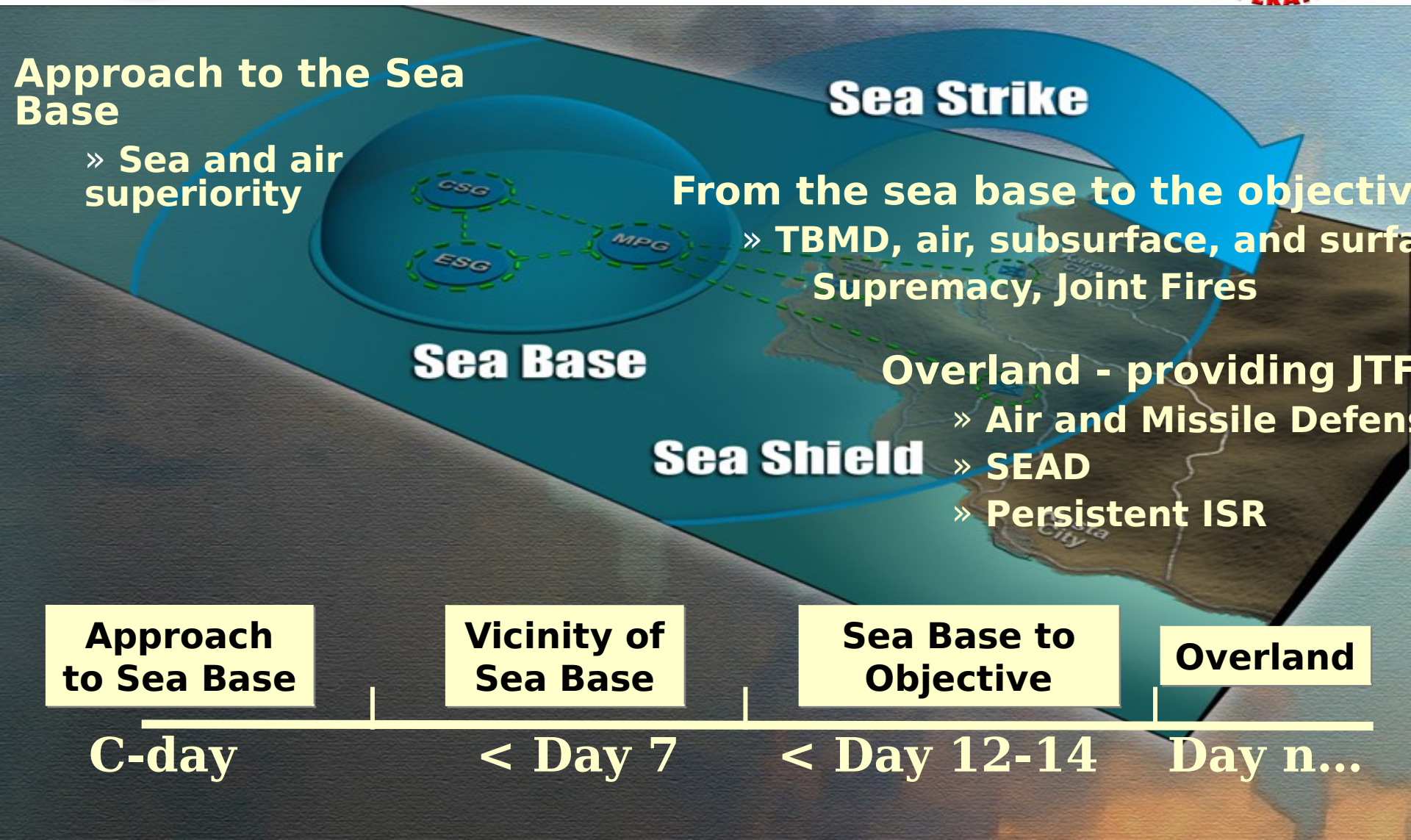
FORCIBLE ENTRY

Forcible Entry: seizing and holding a lodgment in hostile or potentially hostile territory that, when seized and held, will enable continuous landing of troops and materiel and provides maneuver space for subsequent operations (JP 3-18)

Follow-On Forces
- **MPF(F)**

Forcible Entry
- **Amphibious Assa**
- **Air Landing**
- **Airborne Assau**

ACHIEVE BATTLESPACE DOMINANCE

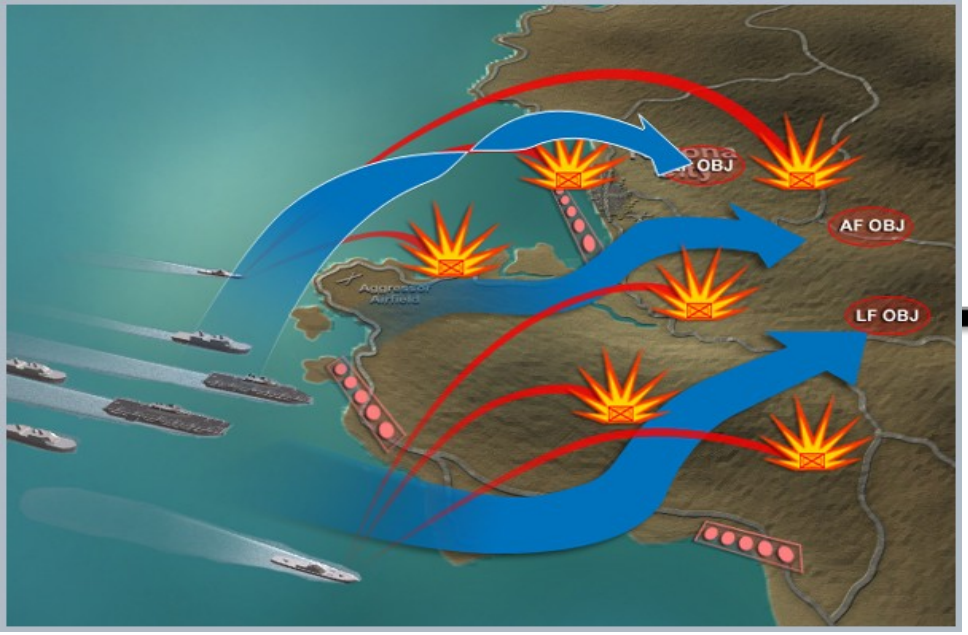


EXECUTE SHIP-TO-OBJECTIVE MANEUVER

Integrated force protection zone covering the littoral battlespace
Power projection – forces and fires - ashore
Geographically dispersed, yet operationally and tactically integrated
Secure operating sea base irrespective of host nation support or over-flight permission

Inherent flexibility of an assault from the sea presents the enemy with a dilemma; *"Will the assault come by land, sea, or air… where, when? Where do I fortify if fortifications only represent targets? How do I combat a ground force if naval forces can strike anywhere?"*

--This is 21st century Joint Combat--



THE JOINT SEABASE

The Key to the execution of the operation through the stabilization phase is the Sea Base:

- Secure
- Maneuvers with forces to shorten response times
- Ship to Objective Logistics

- The Support Ships:
  - Supply Sea Base
  - Retrograde damaged equipment
- We practice in-stride sustainment
  - "Anticipated" pull
  - Selective offload

Tenets of a Sea Based Joint Force

Seamless transition between assault and stabilization phases

Prepared for both:

– Sustained operations ashore

– Persistent forward operations

Shoot, move & communicate

- Tempo inside enemy's decision loop
- OTH, on the move C2

SEA BASING

Principles

- ***Exploit sea as maneuver space***
- ***Strategic and operational freedom of action***
- ***Enduring presence***
- ***Enables increased operational tempo***
- ***Enhances force protection***
- ***Responsiveness***
- ***Joint power projection***

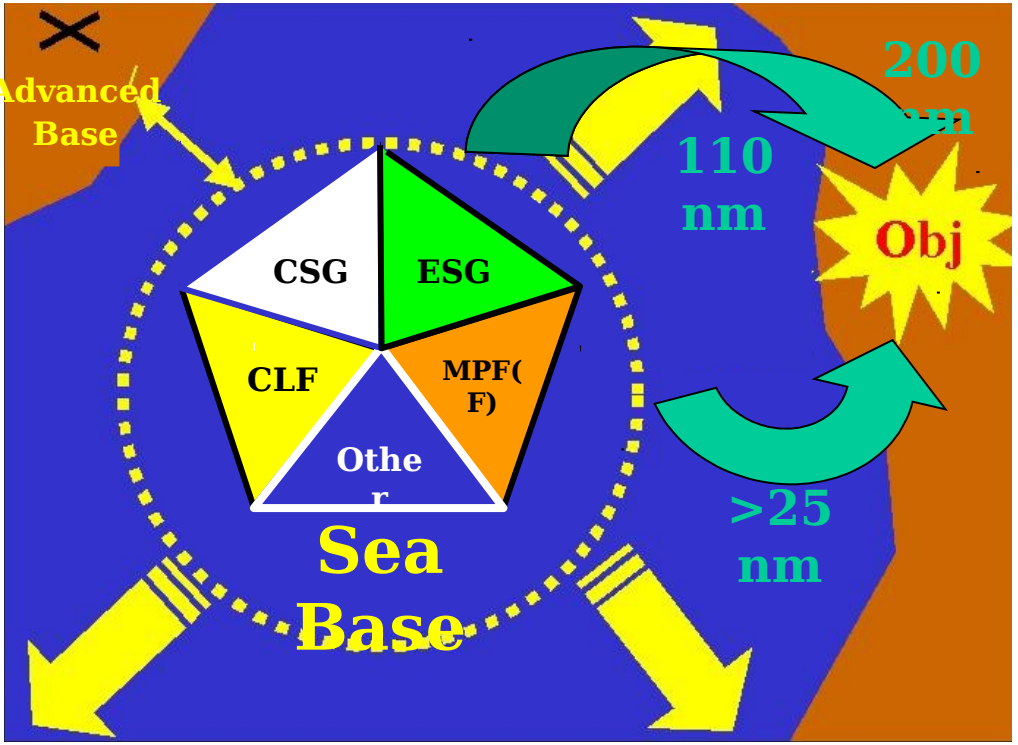
Inherent Capabilities

- ***Joint enabler***
- ***Networked C4ISR***
- ***Rapid force closure, phased at sea arrival and assembly***
- ***Integrated naval power projection/forcible entry***
- ***Selective offload***
- ***Persistence and sustainment***
- ***At sea reconstitution***

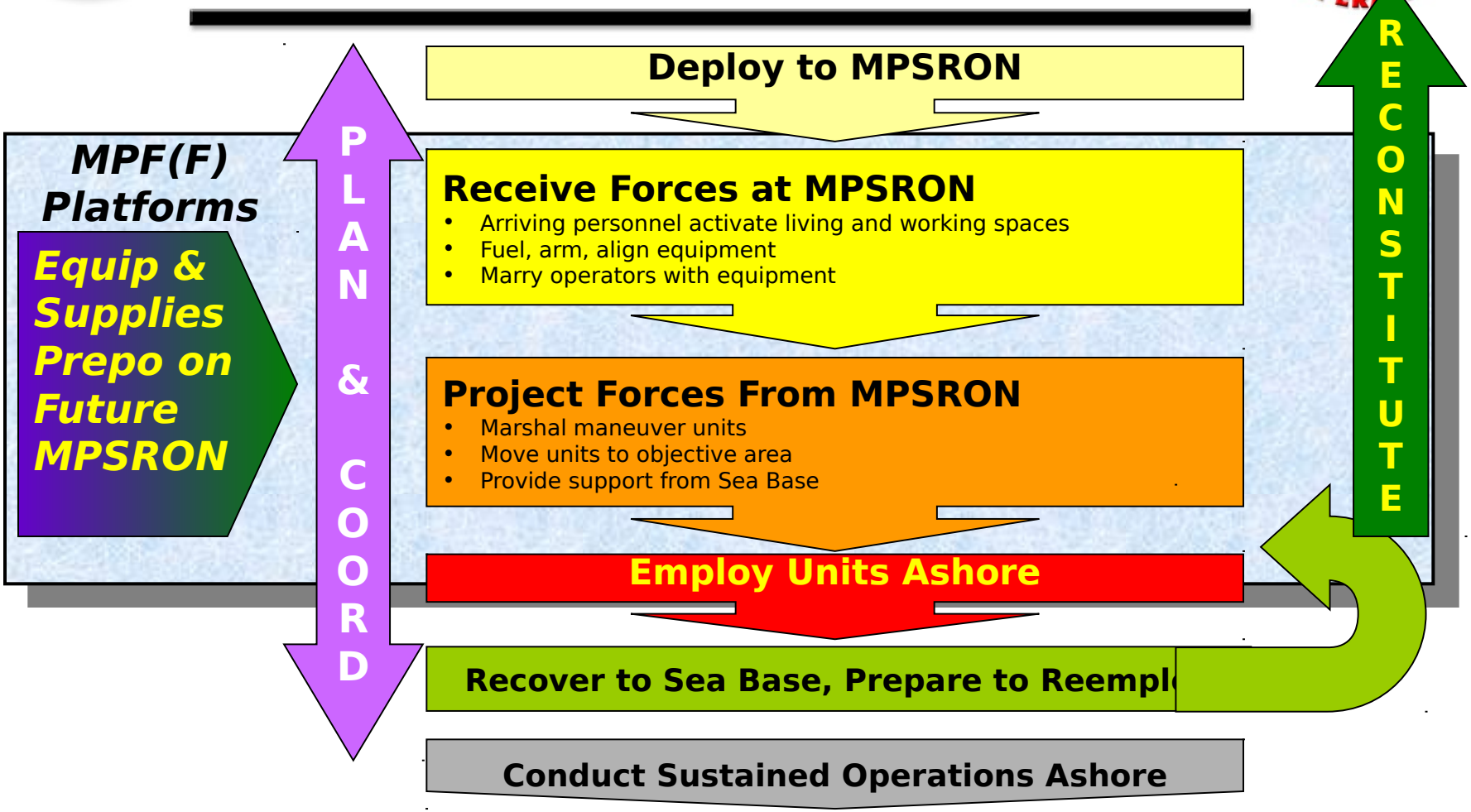
Sea Basing is more than a location or a platform. It is an operational concept.

OPERATIONAL CONCEPT: MPF(F) IS INTEGRAL TO SEA BASING

- **MPF(F) is part of Naval Sea Base**
  - **Exact composition and purpose of Sea Base depends on METT-T**
  - **Combination of a range of naval assets operating offshore**
  - **Sea Base is located where tactically and operationally appropriate (e.g. MODLOC)**
  - **Proximate to theater Advanced Base**



PHASES OF FUTURE MPF OPERATION


MPF(F) Platforms
Equip & Supplies Prepo on Future MPSRON
PLAN & COORD
Deploy to MPSRON
Receive Forces at MPSRON
• Arriving personnel activate living and working spaces
• Fuel, arm, align equipment
• Marry operators with equipment
Project Forces From MPSRON
• Marshal maneuver units
• Move units to objective area
• Provide support from Sea Base
Employ Units Ashore
Recover to Sea Base, Prepare to Reempl
Conduct Sustained Operations Ashore
RECONSTITUTE

SEA BASING IS COMBINATION OF CAPABILITIES OF INDIVIDUAL ELEMENTS

	ELEMENTS OF "SEA BASE"			
CAPABILITIES OF SEA BASING	**ESG**	**CSG**	**MPG**	
			MPF(F)	**CLF**
PHASED AT SEA ARRIVAL AND ASSEMBLY			X	
SELECTIVE OFFLOAD	X		X	
AT SEA RECONSTITUTION			X	
INTEGRATED NAVAL POWER PROJECTION	X	X	X	
NETWORKED C4ISR	X	X	X	X
RAPID FORCE CLOSURE	X	X	X	
PERSISTENCE AND SUSTAINMENT	X	X	X	X

MPF: CURRENT VS. FUTURE

Current MPF/MPF(E)

- Host Nation infrastructure required to assemble force ashore
- Point-to-point delivery, no OMFTS/STOM capability
- No ATF Interoperability
- 30 days sustainment
- Intensive Reconstitution - Redeployment Effort

MPF(F)

- Platforms provide assembly of force from sea
- OMFTS/STOM enabler
- ATF Interoperability
- Sustainment
- Inherent Reconstitution - Redeployment capability

MPF(F) MISPERCEPTIONS

- **Aviation Capabilities**
  - **CMC decision at EOS**
  - **"MPF(F)….does not threaten Navy carrier and large deck amphib interests"**
- **MPF is an "Operational" Platform**
  - **Logistics platform with enhanced support and sustainment capabilities**
- **USMC seeks to "outsource" the amphibs**
  - **No forcible entry capability**
  - **Complementary to the amphibs not a substitute or a replacement**

MPF Today

17 Knot Ships

Requires (Port &) Airfield

Transit 7 Days

Arrival and Assembly Operations
10 Days

Diego Garcia

Arrive SWA

Combat Ready MAGTF

Requires a Secure Area

MPF FUTURE

Faster Ships
- Reduce Transit
- Receives Personne

Operates From A Seabase
- Reduces Footprint Ashore
- Improves Force Protection
- Expedites Arrival and Assem

Combat Ready Forces From the Sea To the Objective

SUSTAINMENT

CONUS Sustainment

Forces Ashore

Selecti ve Offload

MPF

MPF(F) OPERATIONAL PARAMETERS

- **Rapid Force Closure**
- **Order of MAGTF Arrival**
  - **Forward Deployed ESG, MPSRON, AF From CONUS**
  - **Flexible, Scalable According to Situation**
- **MPF(F) Reduces FIE: Deploys Max MEB Combat Capability With Min Tail**
- **Phased At Sea Arrival and Assembly**
- **ESG set conditions w/in 6 hours**
- **Initial Elements of Seabased Echelon ready for Execution w/in 12 hours of arrival. Entire Echelon closes within 7 days**
- **Able to Remain Afloat Until Committed Ashore**
  - **MPSRON Accommodates Entire Sea Based Echelon**
  - **Can Remain Afloat up to 60 Days (Time Required to Close Follow-on Forces)**
  - **Operational and Tactical Flexibility (Loiter, Recovery)**
- **Requires Advanced Base in Theater for Arrival and Transfer of FIE to Sea Base**

MPF(F) OPERATIONAL PARAMETERS (CONT)

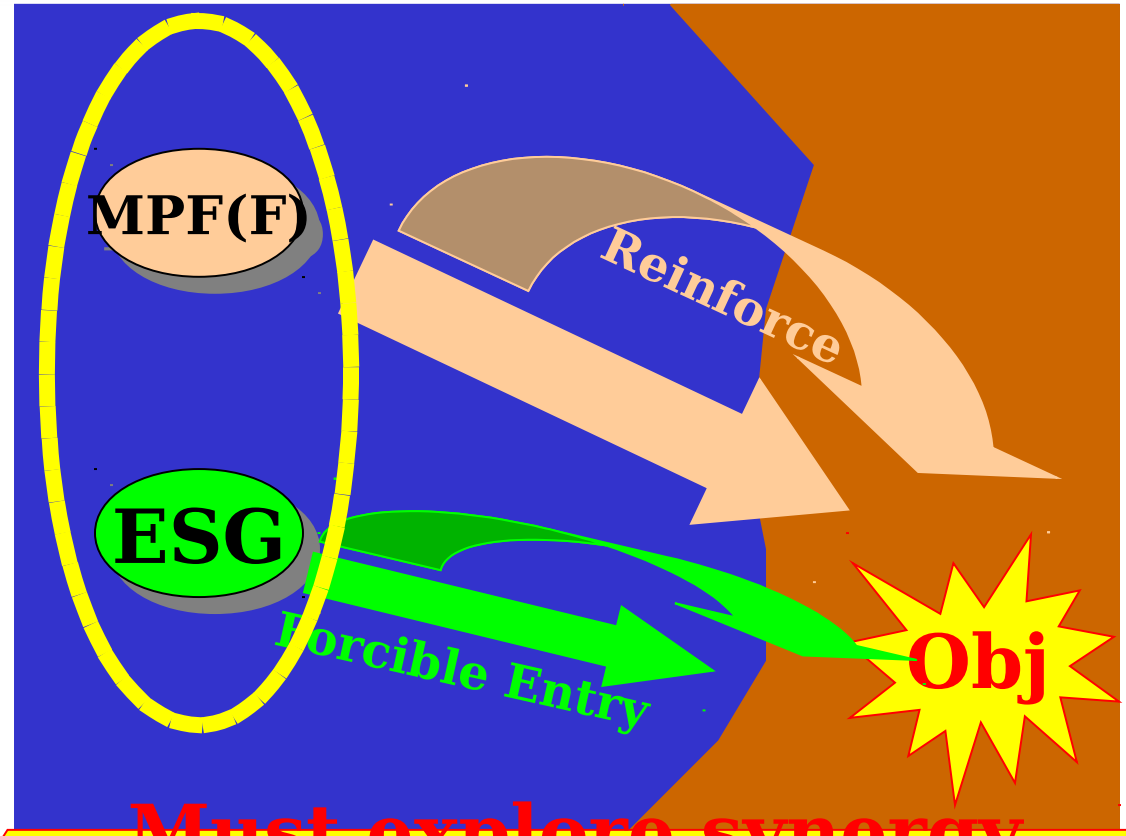
- **Independent Operations (MNS Rqmt)**
- **Self-contained for operations not requiring forcible entry**
- **Low threat level (no organic force protection)**
- **AF Interoperability (MNS Rqmt)**
- **Ability to rapidly reinforce forcible entry operations (MNS Rqmt)**
- **ESG/ESF/CSG Provide**
  - **Force protection**
  - **Strike**
  - **Naval Surface Fire Support**
  - **ISR**
  - **Networked C4ISR**

MPF(F) OPERATIONAL PARAMETERS (CONT)

- **Selective Offload (MNS Rqmt)**
  - **Equipment for Maneuver Units**
  - **Supplies and Parts**
- **Persistence and Sustainment**
  - **Project Support to Maneuver Units Operating Ashore**
  - **Continuous Resupply Via Naval Logistics**
  - **Aviation Basing and Operations Afloat**
  - **Aviation Logistics and Support Afloat**
- **At Sea Reconstitution of Sea Based Forces (MNS Rqmt)**

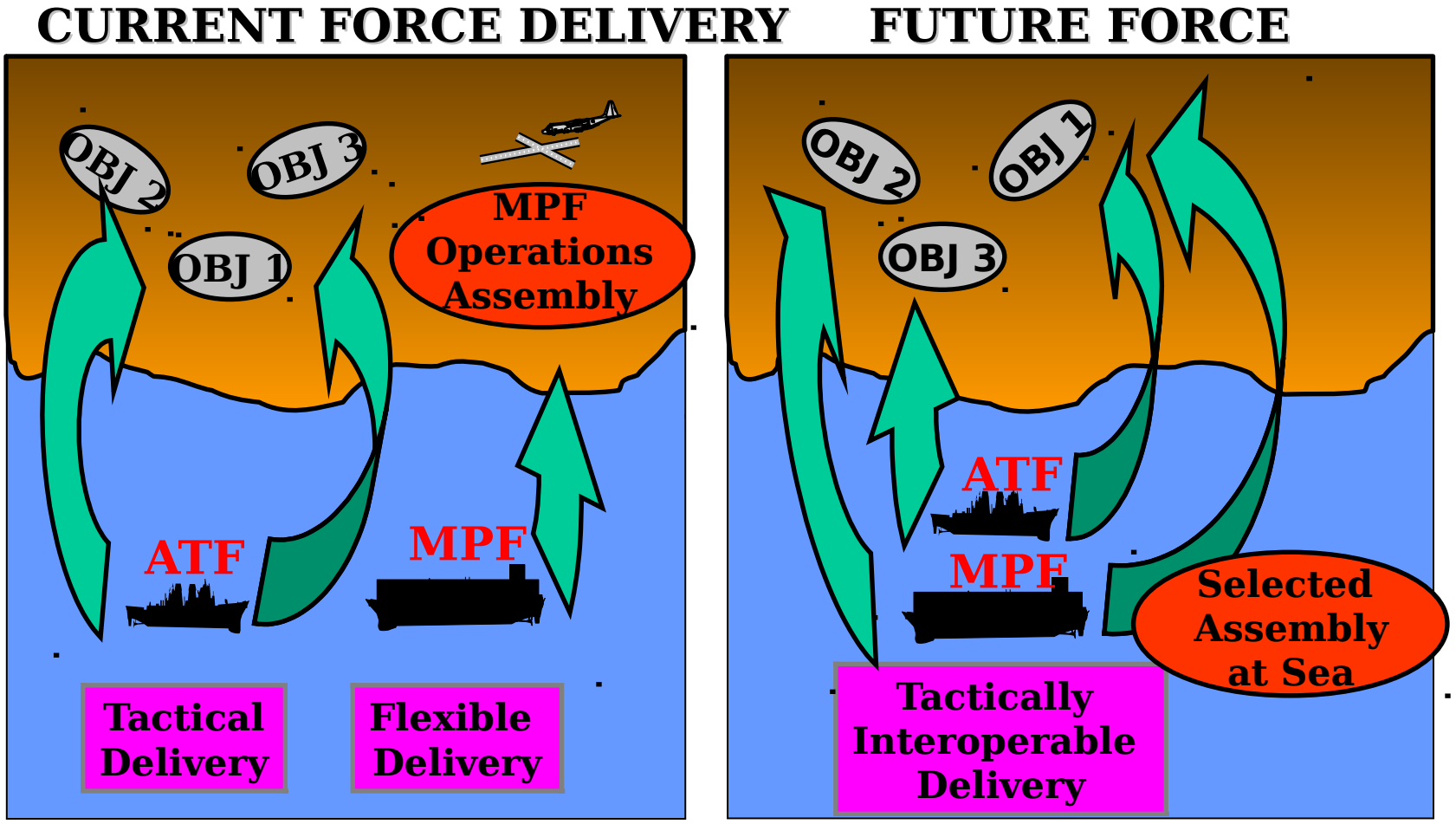
CONCEPT FOR EMPLOYING MPF(F) MANEUVER ELEMENTS

- MPF(F) can operate independently or in conjunction with ESG or ESF (IAW threat)
- MPF(F) can reinforce ESG/ESF operation
  - 1 Reinforced Bn by air (Organic MEB ACE aircraft)
  - 1 Reinforced Bn by surface (AAAV, surface craft)
  - 1 Reinforced Bn in trace by combination of modes
  - Direct from MPSRON to Objective



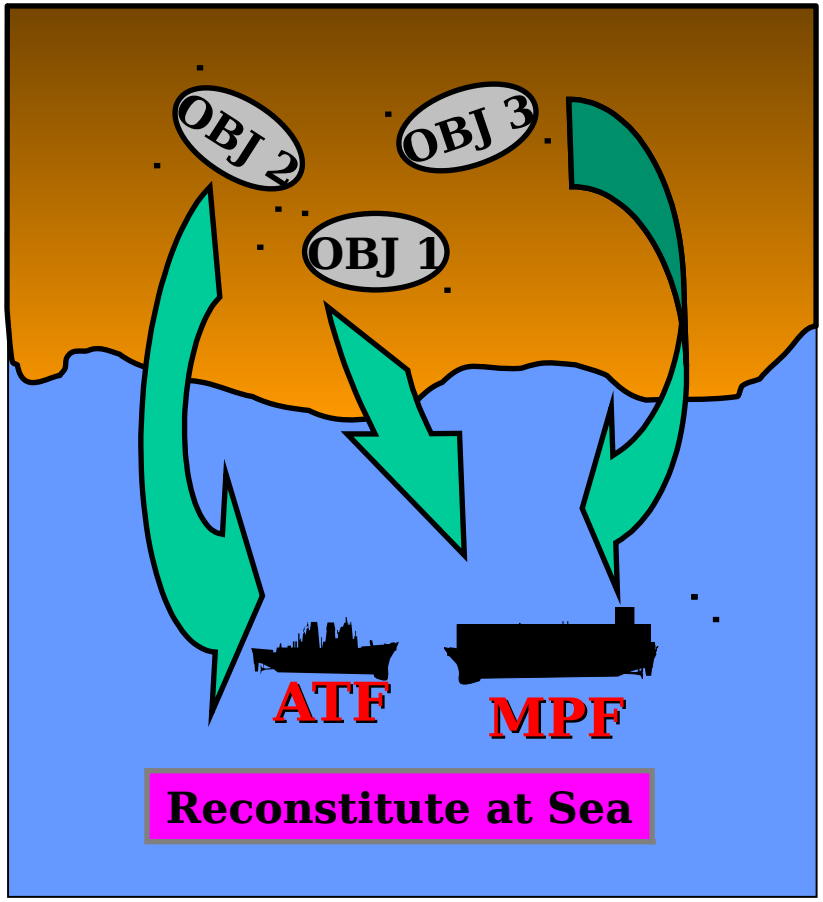
Must explore synergy of ESG and MPF(F) working together

MPF(F)
ATF INTEROPERABILITY

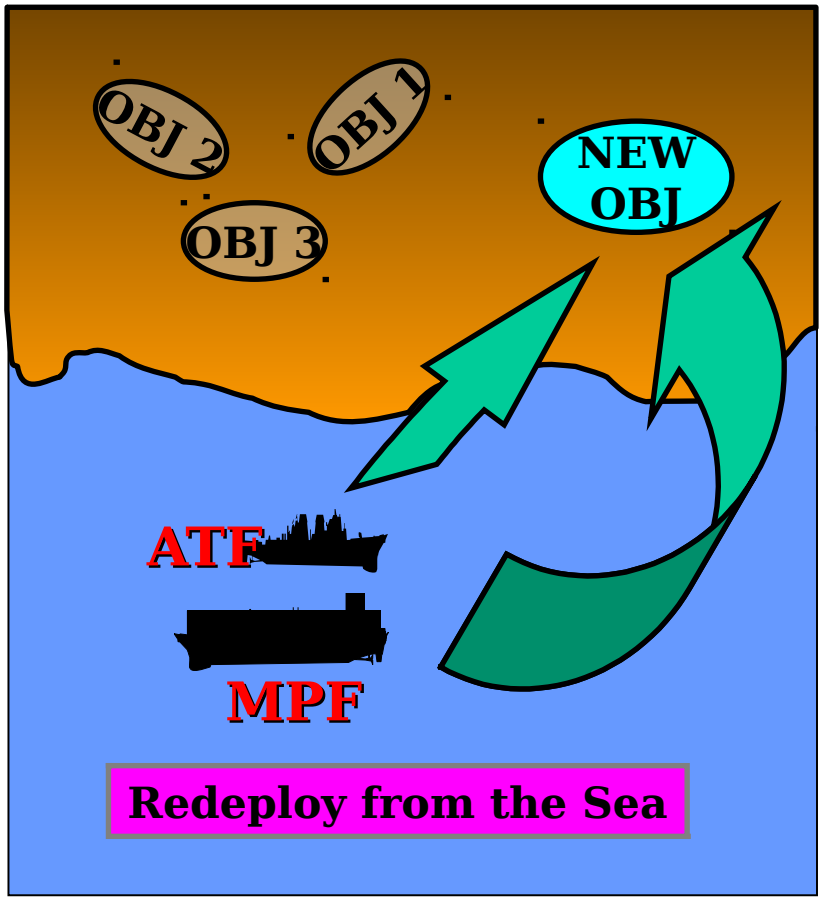


RECONSTITUTION AND REDEPLOYMENT

RECONSTITUTION



REDEPLOYMEN



2015 MEB

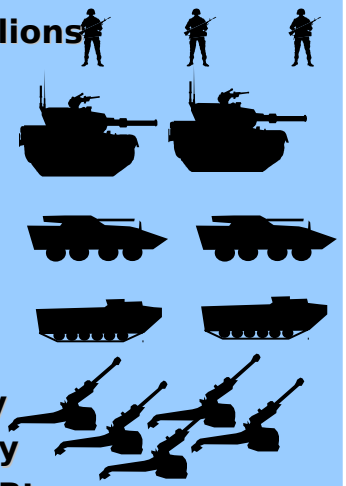
UPDATE 2015 "BASELINE" MEB ORGANIZATION

(14,484)

Command Element (769)

Reinforced Infantry Regiment

- 3 Inf Battalions
- Tank Bn (-)
- 2 LAR Co
- 2 AA Co
- 3 Arty Btry
- 1 EFSS Btry
- 1 HIMARS Btry
- 2 Cbt Engineer Co



(5,585)

Composite Marine Aircraft Group

- 3 JSF Sqdn
- 1 EA-6B Sqdn?
- 1 HMLA Sqdn
- 1 CH-53 Sqdn
- 4 VMM Sqdn
- 1 KC-130 Sqdn

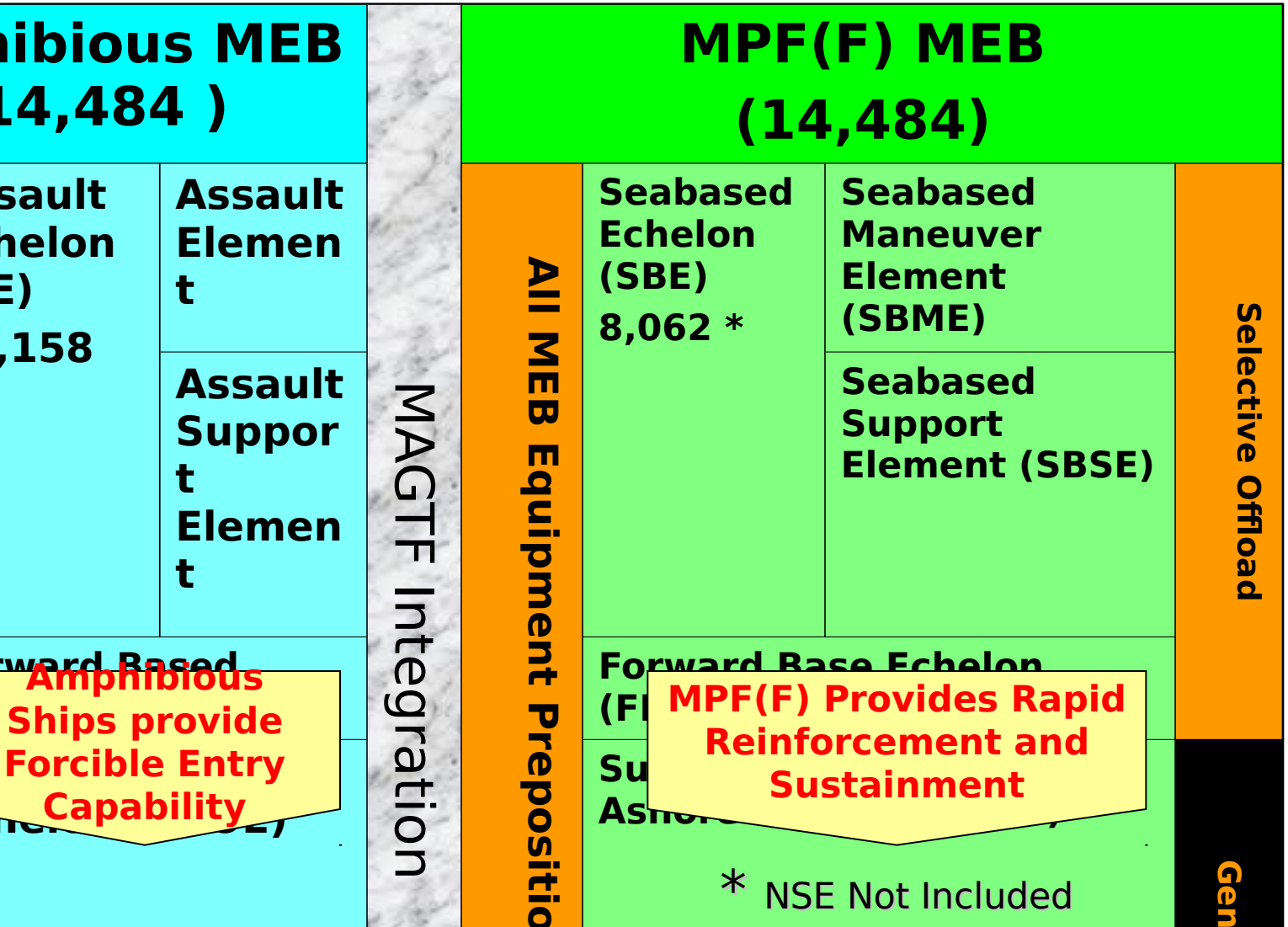
(5,660)

Brigade Service Support Group

- DS Co ACE (FW)
- DS Co ACE (RW)
- 3 Inf Bn DS Co
- Mech Unit DS Co
- Arty Unit DS Co
- GS Bn

(2,470)

2015 MEB MPF(F) UPDATE
ORGANIZATION FOR DEPLOYMENT AND EMPLOYMENT

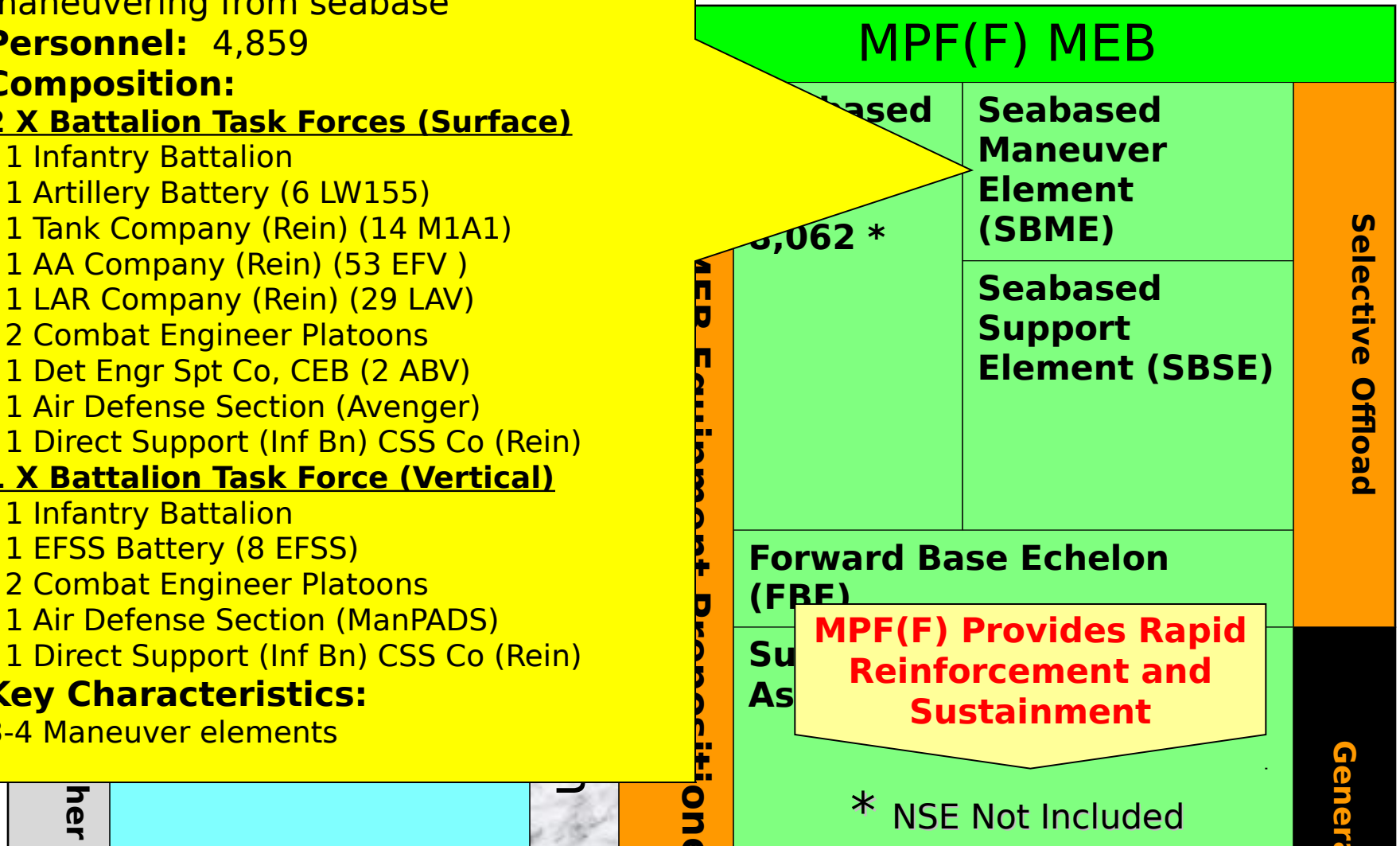


2015 MEB MPF(F) UPDATE
ORGANIZATION FOR DEPLOYMENT AND EMPLOYMENT

Function: Forces to conduct OMFTS/STOM operations by maneuvering from seabase
Personnel: 4,859
Composition:
2 X Battalion Task Forces (Surface)
- 1 Infantry Battalion
- 1 Artillery Battery (6 LW155)
- 1 Tank Company (Rein) (14 M1A1)
- 1 AA Company (Rein) (53 EFV)
- 1 LAR Company (Rein) (29 LAV)
- 2 Combat Engineer Platoons
- 1 Det Engr Spt Co, CEB (2 ABV)
- 1 Air Defense Section (Avenger)
- 1 Direct Support (Inf Bn) CSS Co (Rein)

1 X Battalion Task Force (Vertical)
- 1 Infantry Battalion
- 1 EFSS Battery (8 EFSS)
- 2 Combat Engineer Platoons
- 1 Air Defense Section (ManPADS)
- 1 Direct Support (Inf Bn) CSS Co (Rein)

Key Characteristics:
3-4 Maneuver elements



2015 MEB MPF(F) UPDATE
ORGANIZATION FOR DEPLOYMENT AND EMPLOYMENT

Function: Provide seabased support (command and control, aviation, logistics and base support) to maneuver units conducting STOM/OMFTS operations ashore
Personnel: 3,203
Composition:
MEB CE
GCE Support elements (Rgt CP)
ACE
- RW MAG with 101 aircraft
-- 48 MV-22
-- 18 AH-1
-- 9 UH-1
-- 20 CH-53
-- 6 UAV
- Intermediate Aviation Maintenance
BSSG (General Support Battalion)
Key Characteristics:
- MEB Command and Control
- Seabased Aviation and Aviation Logistics
- Seabased Logistics and Sustainment

MPF(F) MEB

Seabased Echelon (SBE) 8,062 *

Seabased Maneuver Element (SBME)

Seabased Support Element (SBSE)

Selective Offload

rward Base Echelon (FBE)

Su As

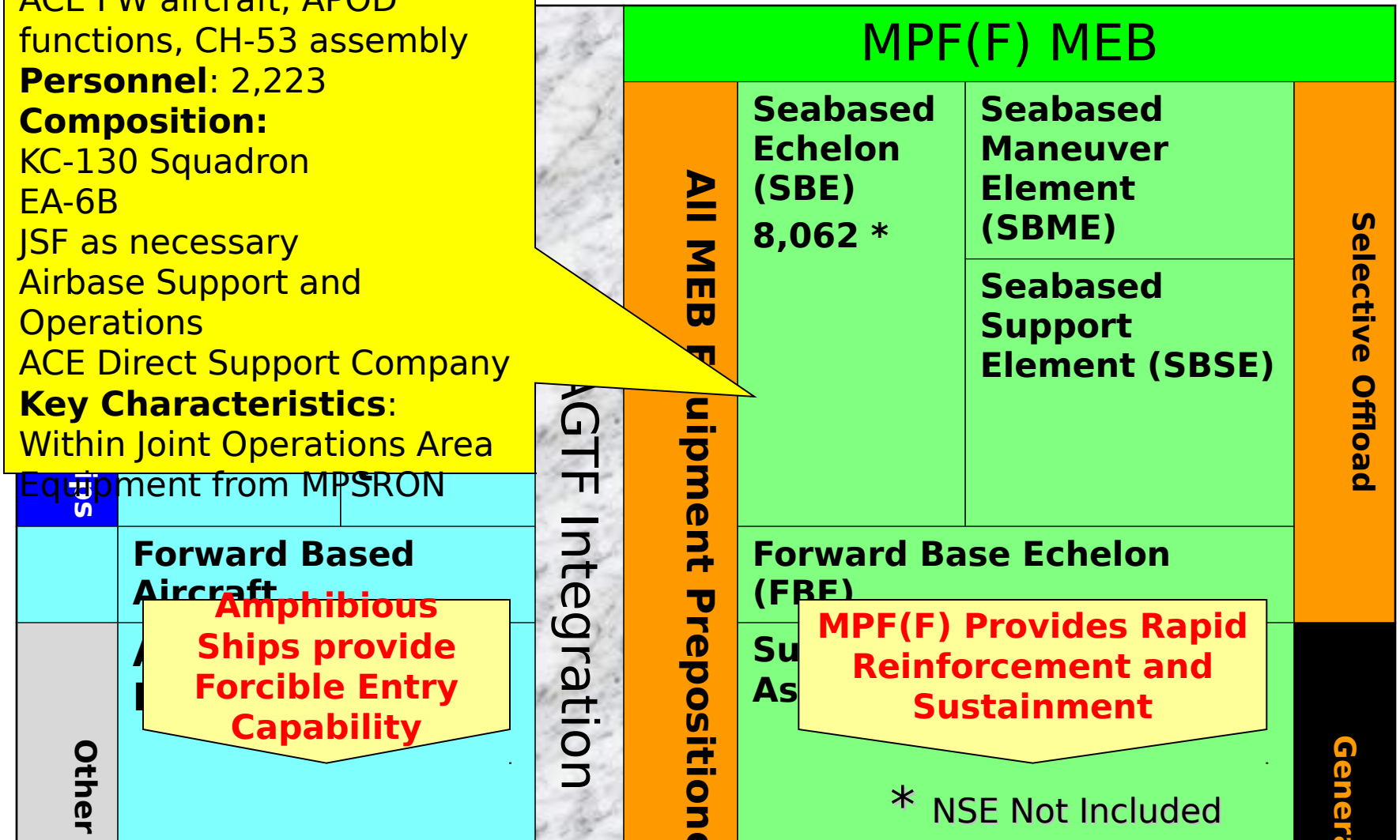
MPF(F) Provides Rapid Reinforcement and Sustainment

Gener

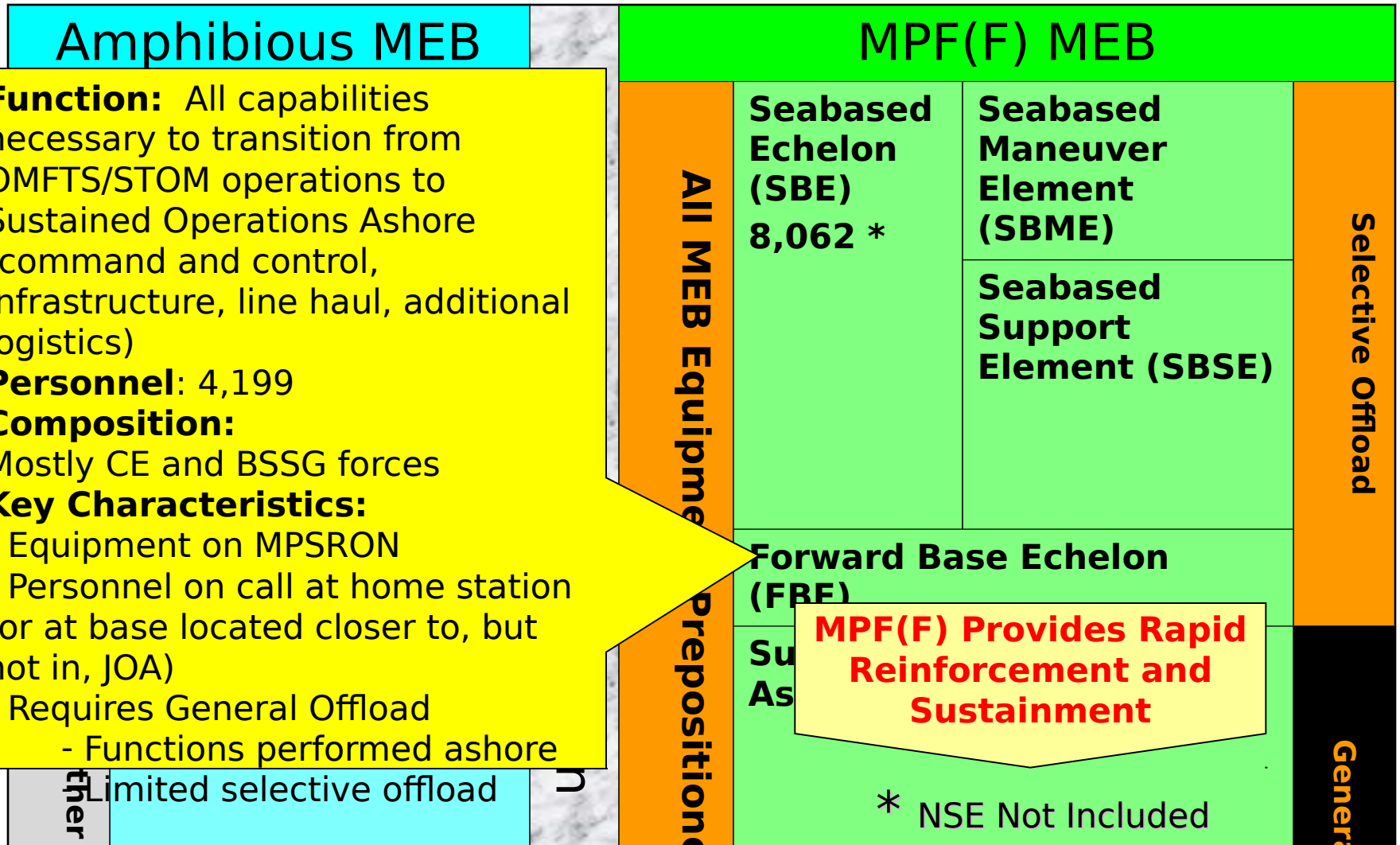
* NSE Not Included

2015 MEB MPF(F) UPDATE
ORGANIZATION FOR DEPLOYMENT AND EMPLOYMENT

Function: Basing for MEB ACE FW aircraft, APOD functions, CH-53 assembly
Personnel: 2,223
Composition:
KC-130 Squadron
EA-6B
JSF as necessary
Airbase Support and Operations
ACE Direct Support Company
Key Characteristics:
Within Joint Operations Area
Equipment from MPSRON



2015 MEB MPF(F) UPDATE
ORGANIZATION FOR DEPLOYMENT AND EMPLOYMENT


Amphibious MEB
MPF(F) MEB
Function: All capabilities necessary to transition from OMFTS/STOM operations to Sustained Operations Ashore (command and control, infrastructure, line haul, additional logistics)
Personnel: 4,199
Composition:
Mostly CE and BSSG forces
Key Characteristics:
- Equipment on MPSRON
- Personnel on call at home station (or at base located closer to, but not in, JOA)
- Requires General Offload
- Functions performed ashore
- Limited selective offload
All MEB Equipment Prepositioned
Seabased Echelon (SBE) 8,062 *
Seabased Maneuver Element (SBME)
Seabased Support Element (SBSE)
Forward Base Echelon (FBE)
Selective Offload
MPF(F) Provides Rapid Reinforcement and Sustainment
* NSE Not Included

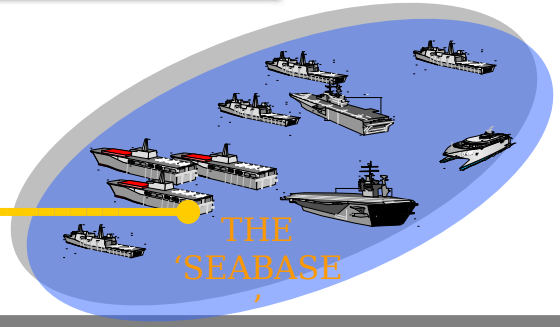
ANALYSIS OF ALTERNATIVES

MPF FUTURE: ANALYSIS OF ALTERNATIVES

"Expeditionary by Nature, Transformational by Design"

AOA CONTENT:

- SCOPE OF AOA EXPANDED BEYOND THE CORE MNS REQUIREMENTS.
- WILL STUDY ADDITIONAL CAPABILITY ABOVE CORE REQUIREMENTS AS VARIANTS OR MODULES TO INCLUDE AFLOAT STAGING BASE (AFSB), LEVEL III MEDICAL CARE, AVIATION EXP SUPPORT SHIP W/ JSF, MCM SUPPORT AND JCCX



ANALYSIS OF ALTERNATIVES

What is it?

- **An analytical comparison of the operational effectiveness and cost of proposed material solutions to meet shortfalls in operational capability**

What does it do?

- **Develops and assesses the advantages and disadvantages of alternatives being considered to satisfy requirements**
- **Includes sensitivity analysis of each alternative to possible changes in key assumptions or variables**
- **Provides information for decision makers use in selecting the most cost-effective solution to satisfy a mission need**

What it does NOT do:

- **NOT INTENDED TO GIVE THE ANSWER**

MPF(F) AoA PRINCIPAL FOCUS

- **MPF(F) Marine Expeditionary Brigade Support**
  - **What must the platforms carry**
  - **How will they receive & deliver forces & supplies**
  - **Platform/system designs to allow seabasing**

MPF(F) AoA ADDITIONAL MISSION FOCUS

Additional capabilities to be investigated

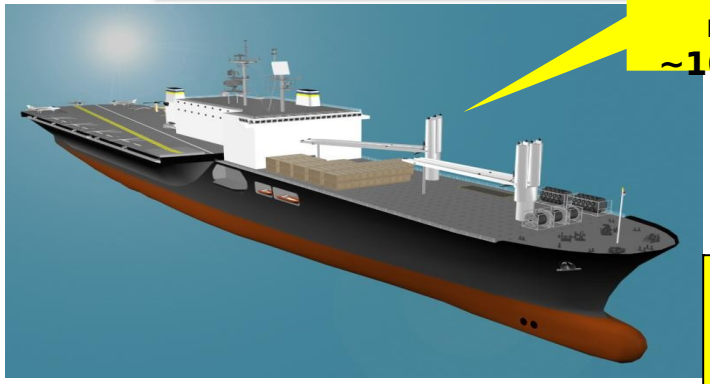
- **T-AVB replacement**
- **T-AH replacement**
- **JCC mission**
- **MCS mission**
- **AFSB mission**
- **More expeditionary lift (ESS concept)**

Each capability can be met by:

1. Buying additional ships
2. Adding space to core ships to meet additional mission
3. Using ships in lieu of core MEB support mission

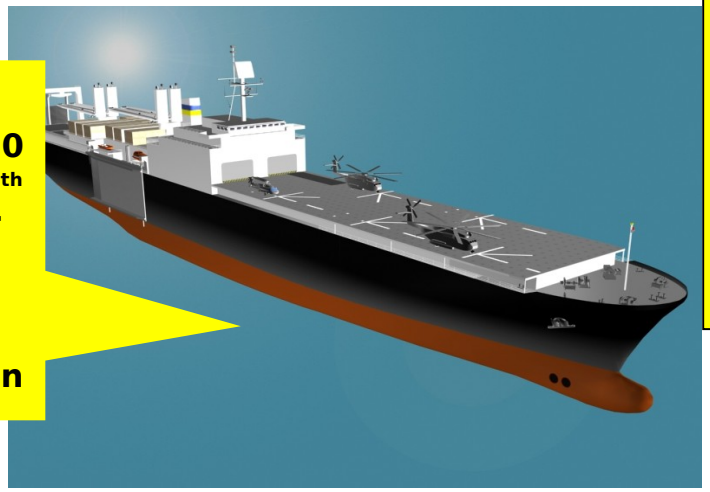
SECOND ITERATION SHIP DESIGNS

Largest Platform ~1080’



Six ship R/W and JSF

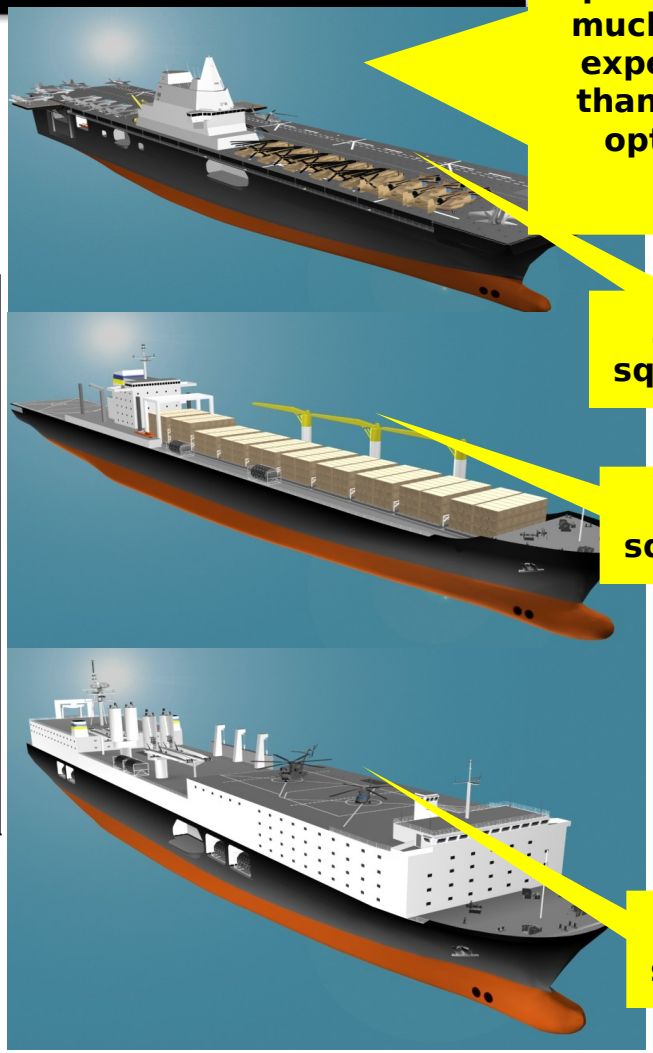
Either put all 30 JSF on 9th ship or spread across entire squadron



Eight ship R/W
Nine? ship R/W and JSF

Initial cost estimates have each squadron @ btwn 10.5 and 12.5 billion dollars regardless of option

CNA revised cost estimates now show FOS squadron not much more expensive than other options



3 per squadron

2 per squadron

3 per squadron

Family of ships R/W and JSF

SURVIVABILITY REQUIREMENTS

While many elements of the MPF(F) platforms represent redundant capabilities of amphibs, the MPF(F) platforms are clearly not built to amphib standards—particularly pertaining to amphib survivability standards (amphibs require Navy Level II survivability)

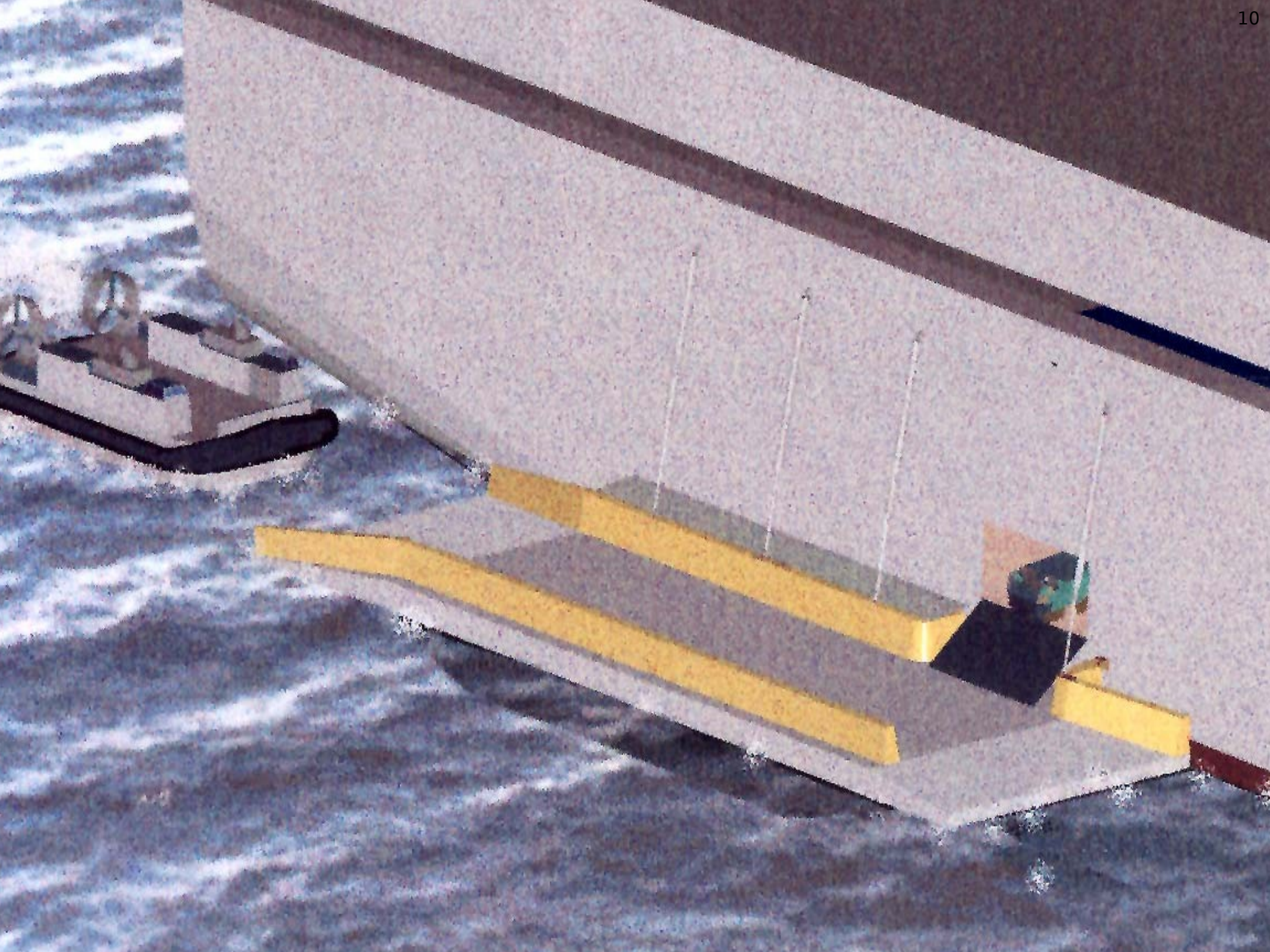
- **MNS requires Navy Level I survivability**
  - 2 compartment stability per draft OPNAVINST
- **AoA survivability assumptions:**
  - Minimize loss of life
  - Prevent the loss of the ship
  - Do NOT require the ship to “fight hurt”
  - Focus on passive defense and recoverability improvements
- **AoA baseline:**
  - Level I survivability
  - Separated engine rooms
- **DoN AoA Scope requires investigation of “cost effective passive improvements”**

Most CONOPS don’t care that these ships aren’t warships.

MPF CONNECTORS

MPF(F) AoA CONNECTOR FOCUS

- Transport craft interface and stowage
  - Well deck versus external landing craft interface (ILP)
  - Rotary-wing aviation operation spots required
  - Organic surface craft requirements
  - Theater logistics craft interface
    - ✓HSV/Army TSV
- Cargo transhipment capability
  - At sea base versus shuttle from ALS/FLSS
  - Theater logistics fixed-wing air interface



HSVs … PRESENT & FUTURE

Present **… III MEF transforming intra-theater lift using commercial high-speed vessels**

Future **… Concept based experimentation to transform support to future Joint Force Commanders**

LINK

ASSUMPTIONS/PARAMETERS

HSVs Provide …

- **High-Speed … rapid littoral maneuver & force closure**
- **Maneuverability and Access … rapid unassisted ingress and egress enables austere port ops**
- **HSVs fill capability gaps**
  - **Connector for Seabased Operations**
  - **Throughput & offload options at austere ports**
  - **High speed movement within JOA**

ASSUMPTIONS/PARAMETERS

- **HSVs are <u>not</u> a Replacement for Amphibious Shipping**
  - **Lack Endurance and Loitering Capability**
  - **Lack Forcible Entry Capability**

- **HSVs are <u>not</u> a Replacement for MPF Shipping**

HSVs Provide the Ship-to-Ship and Ship-to-Shore linkage for other Naval Platforms

LAND-BASED PREPOSITIONING (NALMEB)

NALMEB HISTORY

- **1979: Bilateral Study Group**
  - **Rapid Reinforcement of NATO's Northern Flank**
- **1981: Bilateral MOU**
- **1988: Norway Completes Cave Construction**
- **1989: Initial Operational Capability**
- **1992: Final Ammo and Equipment In Place**
- **1995: Prepositioning Arrangement Signed**
  - ***Burden Sharing Agreement (50 / 50)***
- **1996: CNA Study on NALMEB Retention**
- **1998: Ammunition Fully Containerized**
- **1999: Support to Operation Noble Anvil in Taszar, Hungary**
- **2001: HQMC Out of Area Policy**
- **2002: Support to Operation Enduring Freedom**
- **2003: Support to Operation Iraqi Freedom**

STRATEGIC SIGNIFICANCE

- Norway's location, economy and diplomatic activity give it an importance far out of proportion to it's size
- Dominates the North Atlantic maritime routes
- Third largest petroleum exporter, $23B oil fund
- Imports from US = $1.79 B; Exports to US = $2.87B
- NATO Ally
  - Builds consensus within NATO councils
  - Supports US position in Brussels
  - Leadership of KFOR V
  - 2001 Heads the IRAQ Sanctions Committee

USMC NALMEB ORGANIZATION

NALMEB COMMAND ELEMENT

GROUND COMBAT ELEMENT
INFANTRY REGIMENT (REIN)

- INFANTRY BN (X3)
- ARTILLERY BN
- RECON CO (REIN)
- CMBT ENGR CO (REIN)

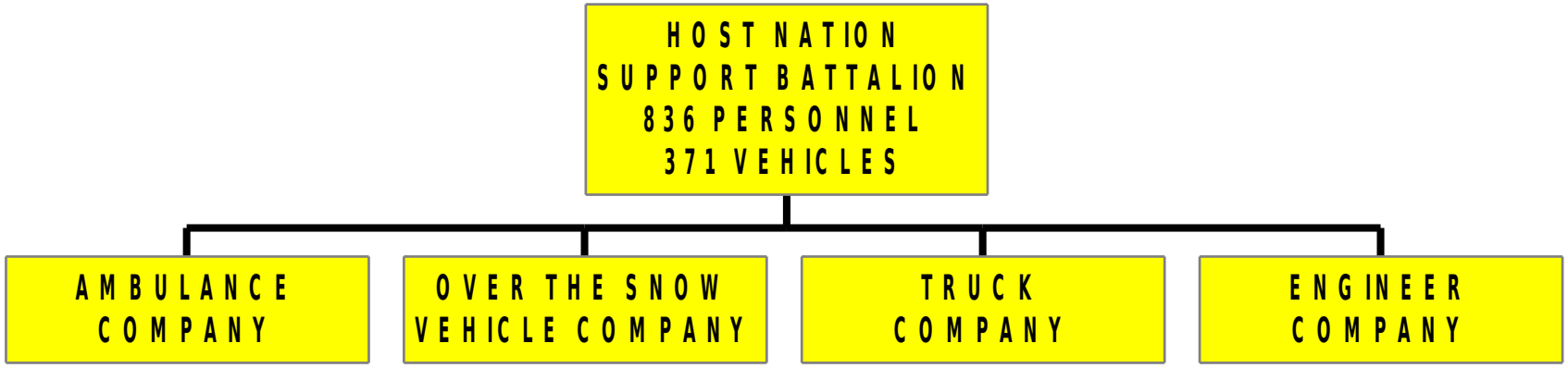
AVIATION COMBAT ELEMENT
MARINE AIRCRAFT GROUP (COMPOSITE)

- 36 x F/A-18 (HORNETS)
- 32 x AV-8B (HARRIERS)
- 5 x EA-6B (PROWLERS)
- 6 x KC-130
- 16 x CH-53E
- 36 x CH-46
- 9 x UH-1N (HUEYS)
- 18 x AH-1W (CORBAS)

COMBAT SERVICE SUPPORT ELEMENT

- DET, ENGINEER SUPPORT BN
- DET, MAINTENANCE BN
- DET, SUPPLY BN
- DET, MEDICAL BN
- DET, DENTAL BN
- DET, TRANSPORTATION SUPPORT BN

HOST NATION SUPPORT BATTALION



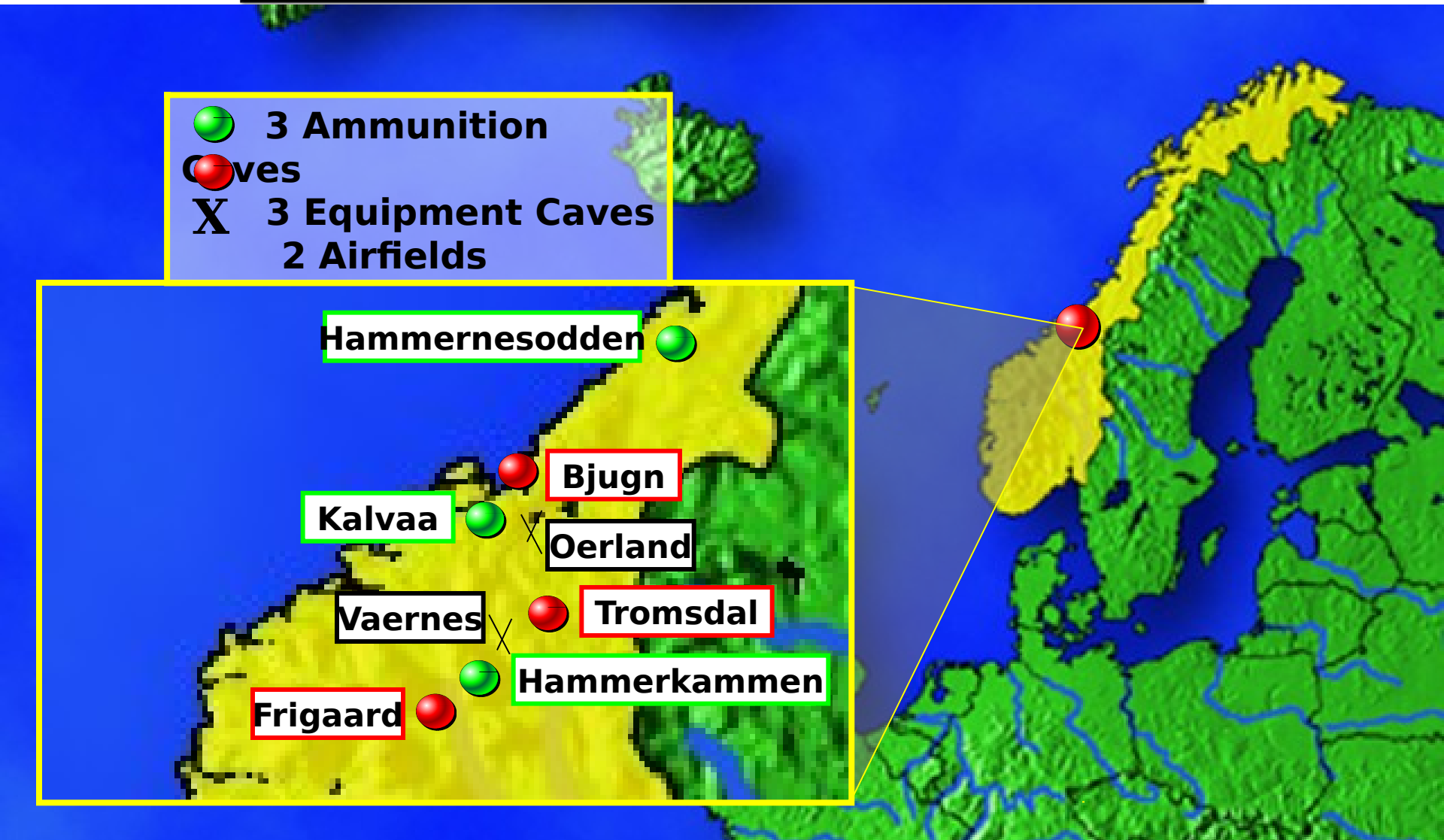
- PROVIDES SIGNIFICANT COMBAT SERVICE SUPPORT TO THE NALMEB

- PLANS CALL FOR ATTACHMENT TO NALMEB ONCE REDEPLOYED TO THE KEY EMPOYLMENT AREA (KEA)

SUMMARY OF PREPOSITIONED EQUIPMENT

TYPE	VALUE	EXAMPLES
Ground Equipment	$173.9 M	18 Howitzers, 171 Trucks, 518 HMMWV's, 14 Cranes, 96 Forklifts
Aviation Support Equipment	$20.1 M	20 Tow Tractors, 20 Maint Shelters, 86 Engine Heaters
Ground Ammunition	$60.3 M	30 Days of Ammo
Aviation Ammunition	$130.8 M	Level of Effort, Not Threat Based

NALMEB STORAGE SITES



RECENT NALMEB USE

Operation Support

-Operation Noble Anvil: '99 Taszar, Hungary - 38 PEIs via rail

-Operation Enduring Freedom

'01/'02 Prepared 661 PEI; 9257 bulk items for shipment

’03 Shipped 324 pallets of Av Ammo; 9k batteries pending

-Operation Iraqi Freedom –

’03 Shipped Sustainment and 700 PEI’s

Exercise Support

-Baltic Challenge PfP

'96 Latvia - 50 ground PEI via rail

'97 Estonia - 120 ground PEI via sea

'98 Lithuania - 25 ground PEI via air

-Tactical Fighter Weapon Exercise (AVN): '99 Denmark - 21 AGSE

-Exercise Clean Hunter (AVN)

'01 Germany - 3 ground PEI & 30 AGSE via truck (TT)

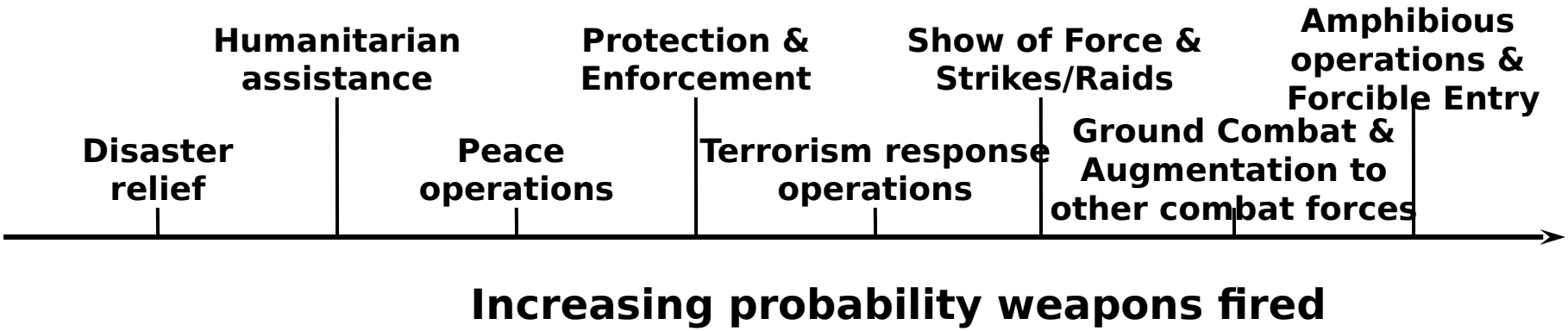
- Exercise Cooperative Venture Exchange 02

’02 Ukraine – 6 M198 How; 100+ PEI

- USAF for NATO AIR MEET 02: Norway 64 AGSE

POTENTIAL FUTURE MISSIONS SETS

- **NALMEB future mission traits**
  - **Support small to medium sized MAGTF**
  - **Support land-locked or regions with poor port infrastructure**
- **Support crisis area within 10-15 days of initiating withdrawal**
- **Exploit selective/scalable withdrawal aspects**



FOUR POTENTIAL COURSES OF ACTION FOR THE FUTURE OF NALMEB

1) Eliminate the program
   - Least desired COA
   - CMC states desire to maintain program

2) Keep program as is – status quo

3) Transform mission in line with today's threats but move to location geographically closer to real or perceived threats

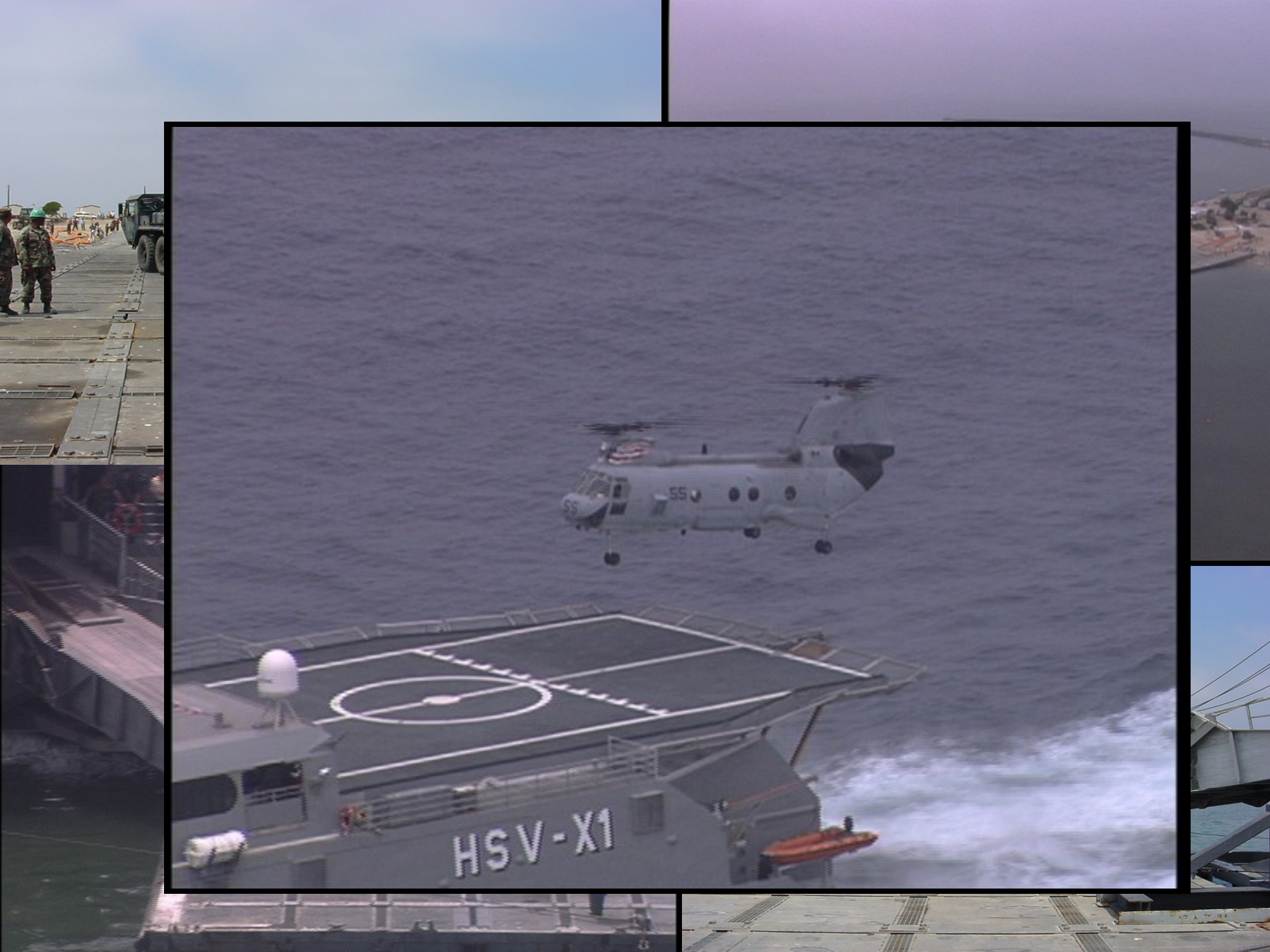
4) Transform mission in line with today's threats and keep location of assets in Norway
   - Recommended COA
   - Takes advantage of already existing relationship, facilities, and capabilities

QUESTIONS

?

MC-02 Causeway Ops

MC-02 Causeway Ops


HSV-X1

Unit	Aircraft Load	Daily fuel (bbls)	Daily ordnance (ST)	Daily stores (ST)	Time to replenish (hrs/3 days)
LHA/D	24 J SF	3,160	180	10	9.8
LHA/D	MEU A/C	3,050	90	10	5.7
LPD-17	8 skids	650	15	3	2.0
LSD	nothing	300	0	3	0.7
CG[1]	H-60	866	66	1	5.0
DDG[1]	H-60	395	17	1	2.0
DD-963[1]	H-60	754	2	<1	1.5
LCS[2]	H-60	309	<35[3]	<1	4.0
RLT ashore	6,000 men	1,435	38	250	24.0

Back up Slides

MPF 5-YEAR EXERCISE PLAN
(BY CINC-AOR)

CENTCOM

•FY02	BRIGHT STAR	EGYPT
•FY03	LUCKY SENTINEL	KUWAIT
•FY04	TBD	BAHRAIN
•FY05	BRIGHT STAR	EGYPT
•FY06	BRIGHT STAR	EGYPT

PACOM

• FY02	COBRA GOLD	THAILAND
• FY03	CROCODILE	AUSTRALIA
• FY04	FOAL EAGLE	KOREA
• FY05	COBRA GOLD	THAILAND
• FY06	FOAL EAGLE	KOREA

EUCOM

•FY02	DISCIPLINE WARRIOR (CPX) SPAIN	
•FY02	DYNAMIC MIX	SPAIN
•FY03	IN THEATER	TBD
•FY04	DESTINED GLORY	TBD
•FY05	IN THEATER	TBD
•FY06	IN THEATER	TBD

JFCOM/CONUS

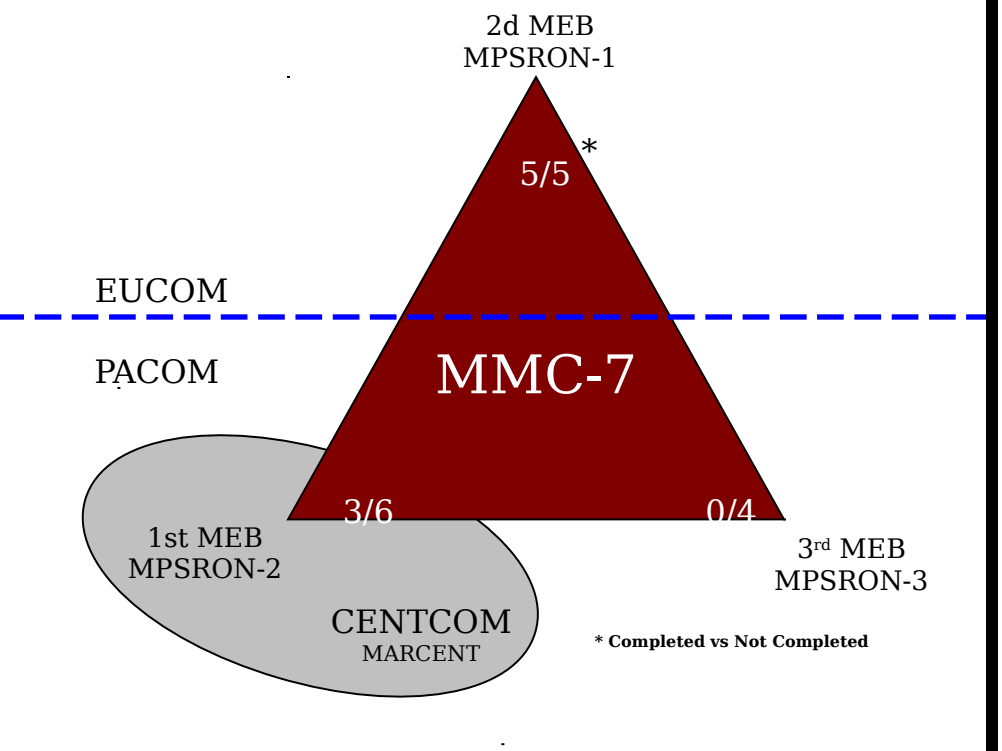
•FY02	*TRI-MEF EXERCISE	BICMD
•FY02	JHSV/MPF INTEROP	BICMD
•FY02	MEF LN TEAM	BICMD
•FY03	TRI-MEF EXERCISE	BICMD

*NOTE: TRI-MEF IS AN ANNUAL REQUIREMENT

MPF Campaign Plan & Components
(Exercises and Training)

OPERATIONAL ISSUES UPDATE

(UNCLAS)

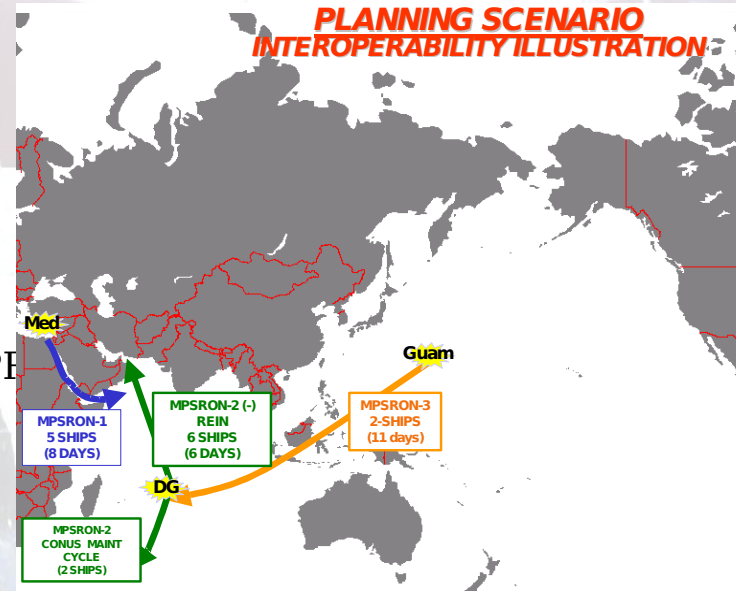


1 OCT VTC W/ MARFORS

- MPSRON-1 POSITION
- MPSRON-3 SPT TO MPSRON-2
- EARLY MOVEMENT ISSUES
- MMC-7
- RELATED ISSUE: 4-6 NOV RECONSITUTION / REGENERATION CONFERENCE

FY-02 ACTIONS/ EVENTS

- TRI-MEF EXERCISE (II MEF LEAD)
- GEOPREPO (NALMEB) ISO OEF
- TAILORING CONFERENCE
- METLS CODIFIED
- MCPIC VISION PUBLISHED
- BASELINING CLOSE OUT→MEB T/E&O SYNCHRONIZATION
- 3-STAR SEABASING CONFERENCE (SEA BASING VIDEO)
- BOBO
- DPG MPSRON STUDY
- APF CONFERENCE
- EXERCISES: DYNAMIC MIX-02, COBRA GOLD/FREEDOM BANNER-02, BRIGHT STAR
- POWG CHARTER AND WORKING GROUP ESTABLISHMENT
- BLOUNT ISLAND CMD VISIT
- PO/LP QTRLY UPDATES ESTABLISHED
- NAVMC 2907 PUBLISHED
- STRATEGIC PROGRAM PLANNING CYCLE MSG/PLAN
- PREPO PLANNERS HAND BOOK (1ST DRAFT)
- FY03 MPF THROUGHPUT-FORCE CLOSURE STUDY APPE
- NAVAL STRUCTURE REVIEW INITIATED
- LOPEZ
- MPF FUTURE PATH CLEARED TO THE AOA



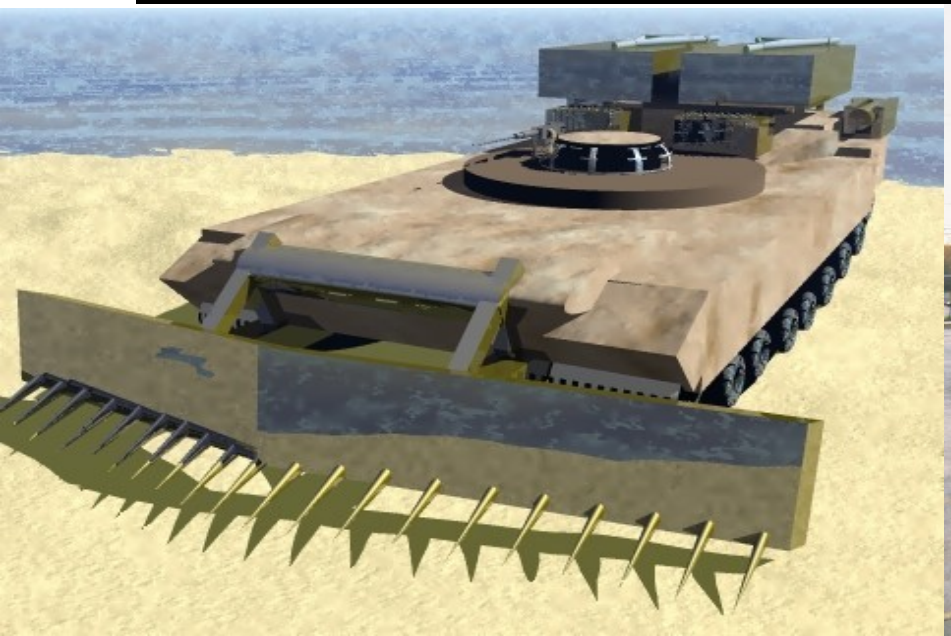
OPERATIVE WORDS: WHY, WHAT & IOT

b. Decisions.

(1) MROC accepts the revisions to the ORD; MCCDC forward corrected Operational Requirements Document for the Assault Breacher Vehicle to ACMC for signature.

(2) MROC did not accept either MARFORLANT or MARFORPAC compensation lists but elected to consider a more holistic approach and tie ABV compensation to all other competing systems (sqft, cuft, weight) via the MMC planning/tailoring process commencing October 2002.

(3) MROC will certify the results of the interoperability / tailoring for MMC-8. PP&O, as ground advocate, brief the results of the tailoring conference for MMC-8 during Spring 2003.



MPF CAMPAIGN PLAN: The Construct

TABLE OF CONTENTS

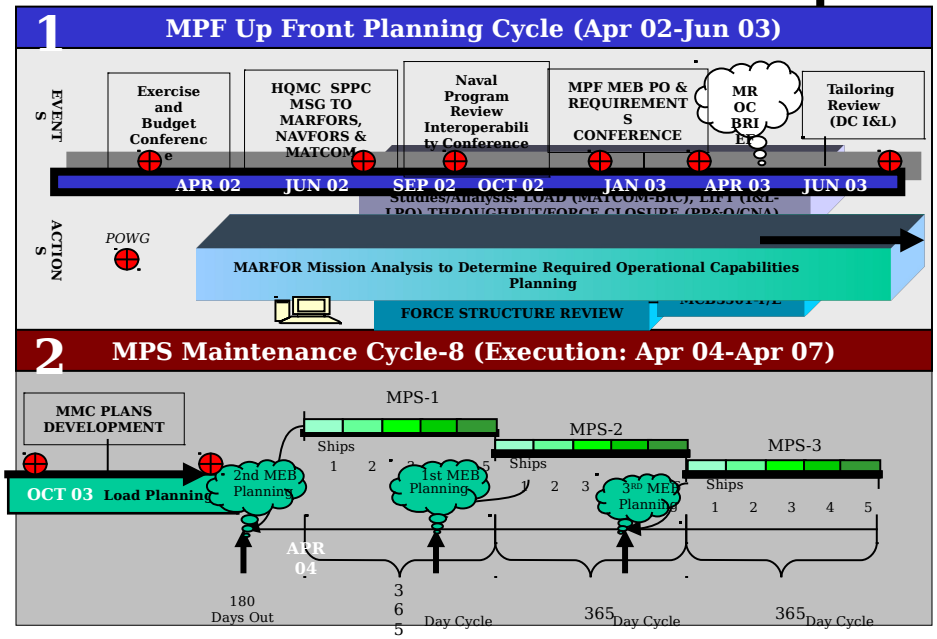
- *CONTINUED POLICY*
- *ORGANIZATION*
- *MMC PLANNING*
- *TRAINING AND EXERCISES*
  - *--MISSION ESSENTIAL TASKS*
- *MPF TRANSITION PLAN*
  - *EXPERIMENTATION*
  - *-OPERATIONAL TESTING*
- *EDUCATION/MARKETING*
- *FUTURE MMC PLANNING*
- *MPF FUTURE & LINKAGE WITH ENHANCED NETWORK SEABASING (ENS)*

OUR CURRENT/FUTURE MPF PROGRAMMATIC LANDSCAPE…WHAT YOU DON’T KNOW WILL HURT YOU!
MMC-8

MPF CAMPAIGN PLAN: (MMC)

Planning the next MPS Maintenance Cycle

❖ MMC PLANNING



FOCUS: PLANNING FOR MMC 8 (FY 03-07) TO DEVELOP A PHASED & LINKED APPROACHTO PROGRAMMATIC PLANNING TO SPT MPF.

PURPOSE:

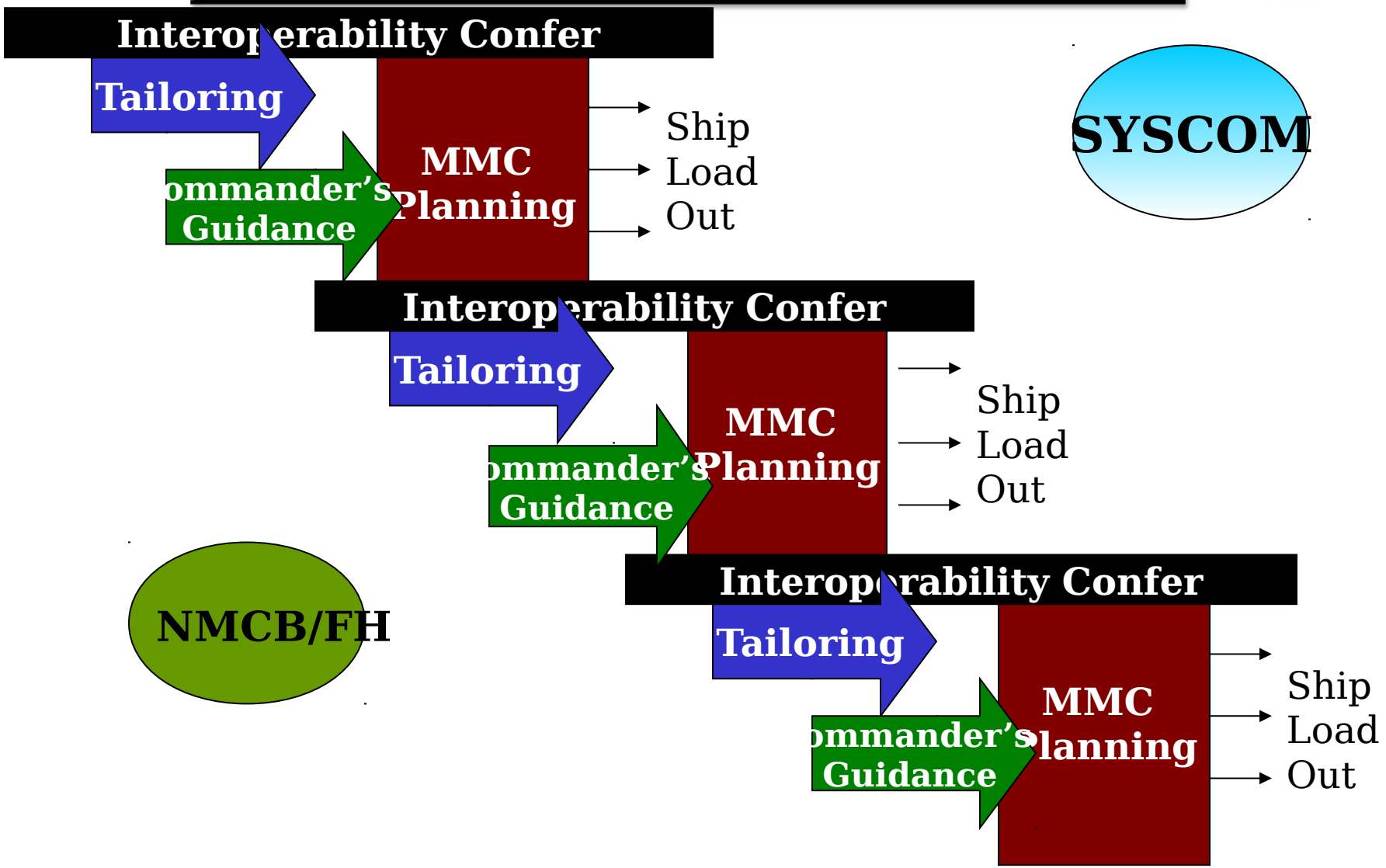
- •OPTIMIZE MEB LOAD OUT W/I MPSRONS
- •EXECUTE MROC DIRECTION/INTENT
- •PUT DISCIPLINE INTO MMC PLANNING & ANALYSIS PROCESS.
- •POSTURE MPF PROGRAM FOR INTERIM & FUTURE PLANNING
- •UPDATE POLICY

STAFFING: (02)

- •JAN-MAR: DISCUSSIONS W/ MARFORS, OPNAV, NAVFORS, SE AT MPF EVENTS
- •APR-JUN: DRAFTS OF MSG OUT FOR ALCON REVIEW
- •5 JUL: FORMAL STAFFING TO MARFORS/MATCOM AND OPNAV
- •AUG: FINAL-FINAL COPY FROM HEAD, POE TO MARFORS/MATCOM COS
- •SEPT: FINAL-FINAL DRAFT SENT TO DIR LP, MET W/SYSCOM & PULSE CHECK W/ MARFORS AT TRI-MEF IPC

Current 3-Year Cycle:

The Way it is Now



1 MPF Up Front Planning Cycle (Apr 02-Jan 03)

THE WAY IT WILL BE!

EVENTS

Exercise and Budget Conference

HQMC SPPC MSG TO MARFORS, NAVFORS & MATCOM

Naval Program Review Interoperability Conference

MPF MEB PO & REQUIREMENTS CONFERENCE

MROC BRIEF

Tailoring Review

APR 02 | JUN 02 | SEP 02 | OCT 02 | JAN 03 | APR

03 JUN 03

Studies/Analysis: LOAD (MATCOM-BIC), LIFT (I&L-LPO)
THROUGHPUT/FORCE CLOSURE (PP&O/CNA)

ACTIONS

POWG

MARFOR Mission Analysis to Determine Required Operational Capabilities Planning

FORCE STRUCTURE REVIEW

MCB3501-T/E

2 MPS Maintenance Cycle-8 (Execution: Jan 04-Apr 07)

MMC PLANS DEVELOPMENT

OCT 03 Load Plannin

2nd MEB Planning

1st MEB Planning

3RD MEB Planning

MPS-1 Ships 1 2 3 4 5

MPS-2 Ships 1 2 3 4 5 6

MPS-3 Ships 1 2 3 4 5

APR 04

180 Days Out

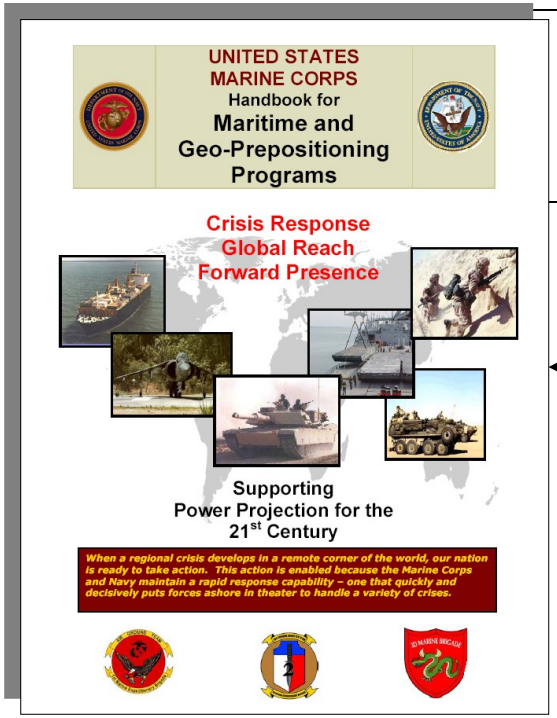
365 Day Cycle

365 Day Cycle

365 Day Cycle

MPF CAMPAIGN PLAN: Education & Marketing:

- EDUCATION & MARKETING


UNITED STATES MARINE CORPS
Handbook for
Maritime and Geo-Prepositioning Programs
Crisis Response
Global Reach
Forward Presence
Supporting Power Projection for the 21st Century
When a regional crisis develops in a remote corner of the world, our nation is ready to take action. This action is enabled because the Marine Corps and Navy maintain a rapid response capability – one that quickly and decisively puts forces ashore in theater to handle a variety of crises.

HEADQUARTERS
UNITED STATES MARINE CORPS
WASHINGTON DC

The Marine Corps' Maritime Prepositioning Force (MPF) and Norway Air-Landed Marine Expeditionary Brigade (NALMEB) programs are time-tested and operationally indispensable capabilities for our combatant commanders as they defend our Nation's interests across the world. In times of crises, these two unique and independent programs provide the essential elements needed to execute crisis response, global reach, and forward presence. Whether the mission is a humanitarian assistance/disaster relief (HA/DR), small-scale contingency (SCC), or major theater of war (MTW), our maritime and geo-prepositioning programs provide the flexibility to support and sustain the Marine Air-Ground Task Force (MAGTF).

These programs have proven relevant and successful in the past and will remain relevant and even more successful in the future. By prepositioning key war fighting equipment ashore and aboard vessels strategically positioned at sea, we have significantly reduced the reliance on strategic airlift requirements while providing a powerful, integrated, war-fighting capability for the combatant commander to quickly employ as needed.

We are not resting on our laurels. The Marine Corps continues to seek innovative and progressive programmatic developments to increase capabilities and fine-tune readiness, force closure, and force standup processes for Marine Expeditionary Forces.

The horizon is bright as we actively work with our Navy brethren to develop a MPF of the future that provides seabasing platforms for at-sea arrival of forces, that can be sustained at sea, and reconstituted as needed to support another crisis response.

This handbook provides a wealth of information about our prepositioning programs and the capabilities each provides. More importantly, the information will highlight the importance of prepositioning to our Corps and to our combatant commanders and why it has become the first choice in support of crisis response.

MPF Campaign Plan & Componen

(Force Structure: MEB T/O&E Analysis)

MPS ***FIE***

MCBUL 3501 *LMIS* *Data* *Ana* ***T/E*** ***T/O*** ***UNIT***

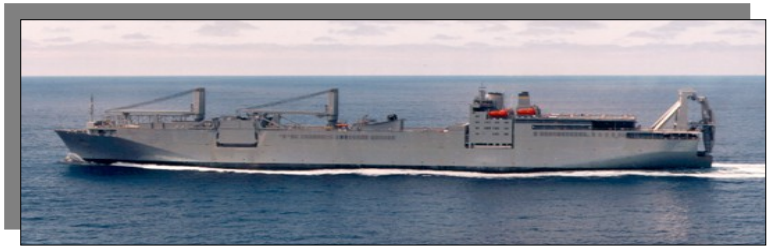
CE **GCE** **ACE** **CSSE**

MPF Campaign Plan & Components

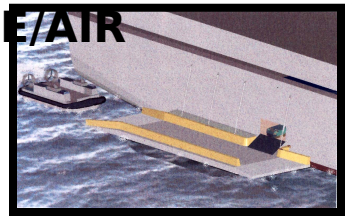
(Transition to MPF Future Capability—Experimentation)

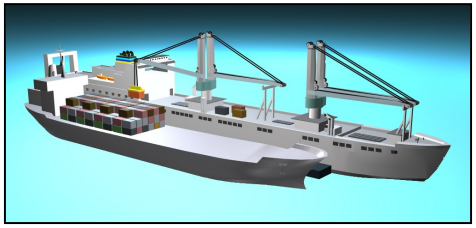
CONVERSION PLATFORM + **CAPABILITY** = **END STATE**

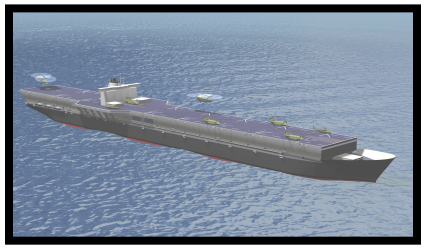
LMSR/RO-RO/CONT SHIP

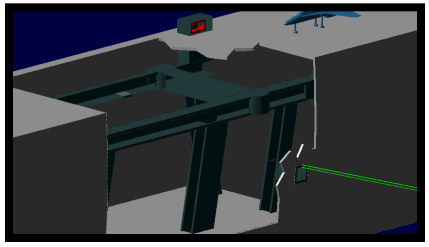


-SURFACE/AIR INTERFACE(S)
-OPEN OCEAN CRANE
-SHIP BOARD ELEVATORS
-ADVANCED CONTAINER SYSTEMS



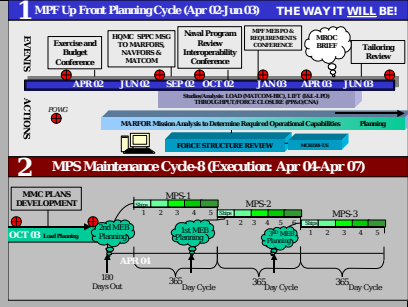






PURPOSE: FIELD AN MPF FUTURE OPERATIONAL CAPABILITY (SELECTIVE OFFLOAD, AT SEA ARRIVAL AND ASSEMBLY) TO THE COMBATANT CMDRS BEFORE THE NEW MPF FUTURE SHIP BUILDS ARE ON LINE.

BASELINE MPF CAPABILITY



CINC

NF

CAP 5

CMF

NCW

CAP 4

MPS

NSE

AAOG

SPMAGTF

CAP 1

MPF MEB

GCE

ACE

CSSE

CAP 2

NMCB

CAP 3

CAP 1

O-DAY

CAP 2

CAP 3

CAP 5

CAP 4?

LANDWARD

SEAWARD

FP

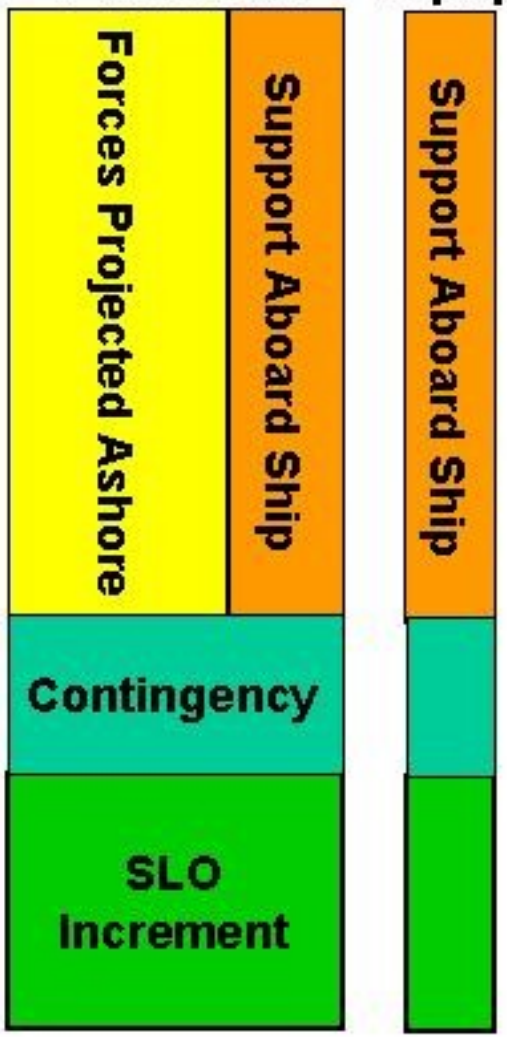
COMBAT READY MEB

Elements of MPF(F)

Prepositioned Equipment /Supplies

Equipment and Supplies for Seabased Power Projection Operations
Projected Ashore
Support Aboard Ship
Selective Access to Equipment for Contingencies
Equipment and Supplies for Sustained Land Operations

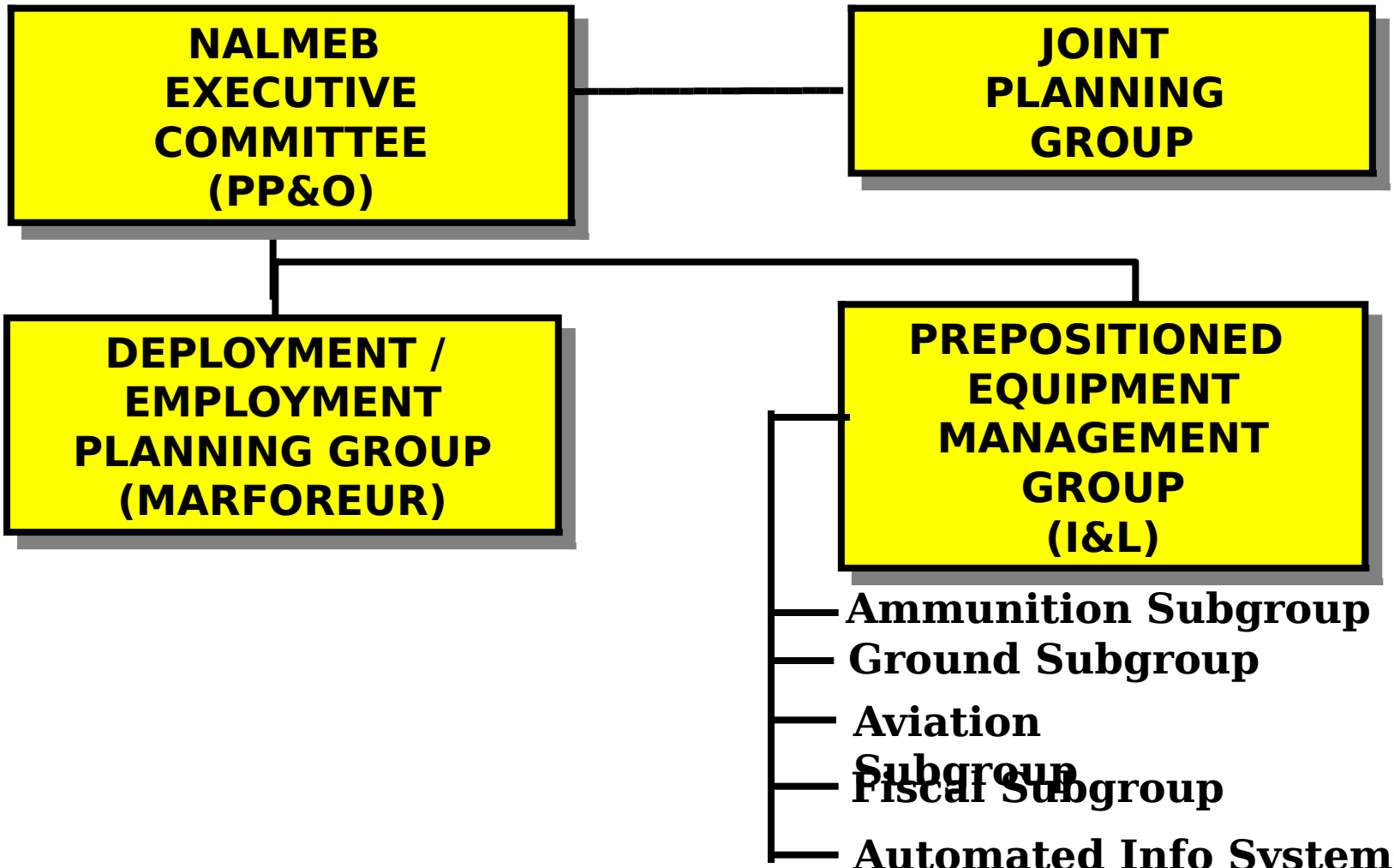
Flow-In Echelon



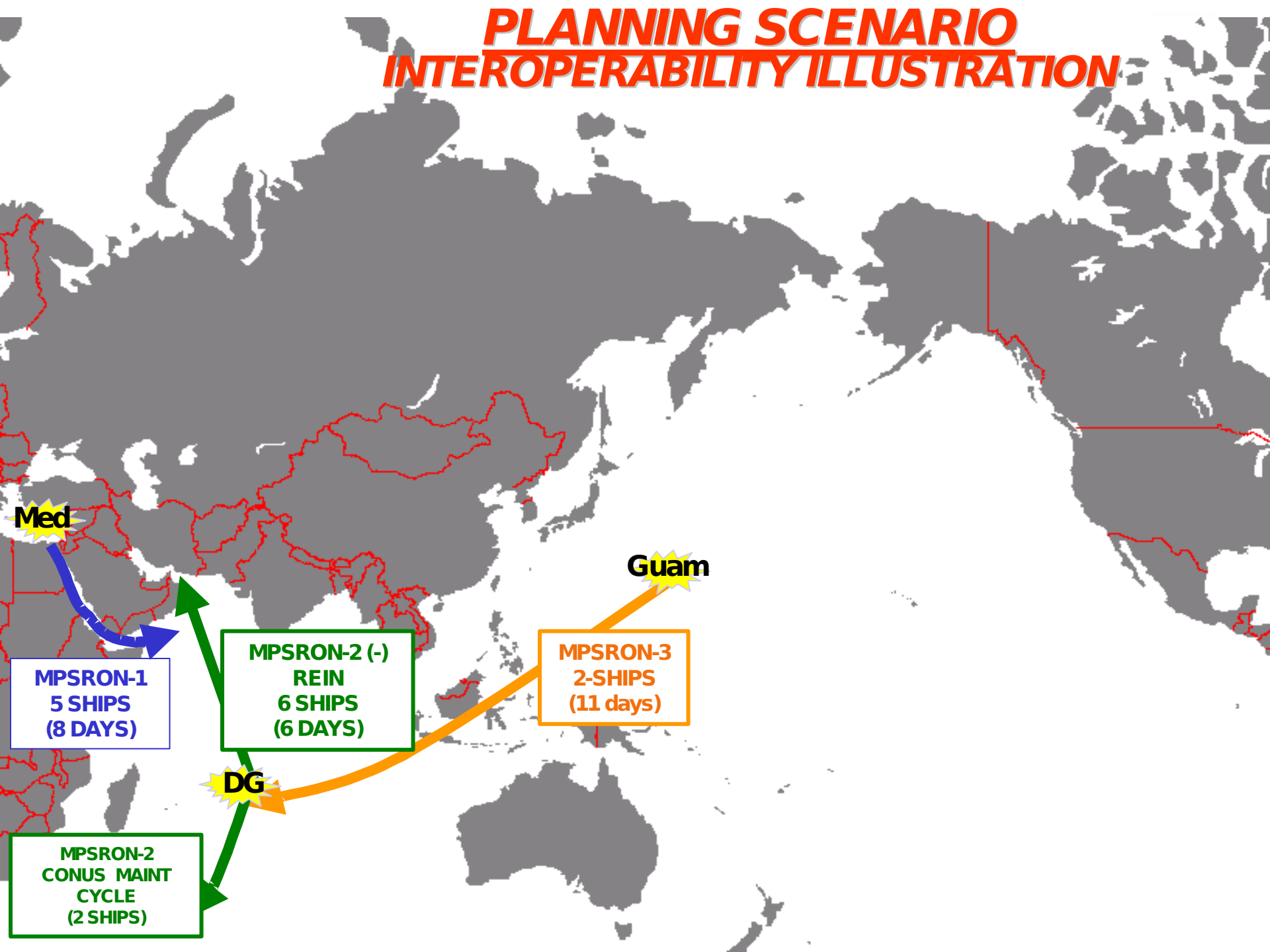
The Global CONOPs and 375

Maximum Power Forward

NALMEB MANAGEMENT STRUCTURE



PLANNING SCENARIO
INTEROPERABILITY ILLUSTRATION



LITTORAL COMBAT SHIP (LCS)

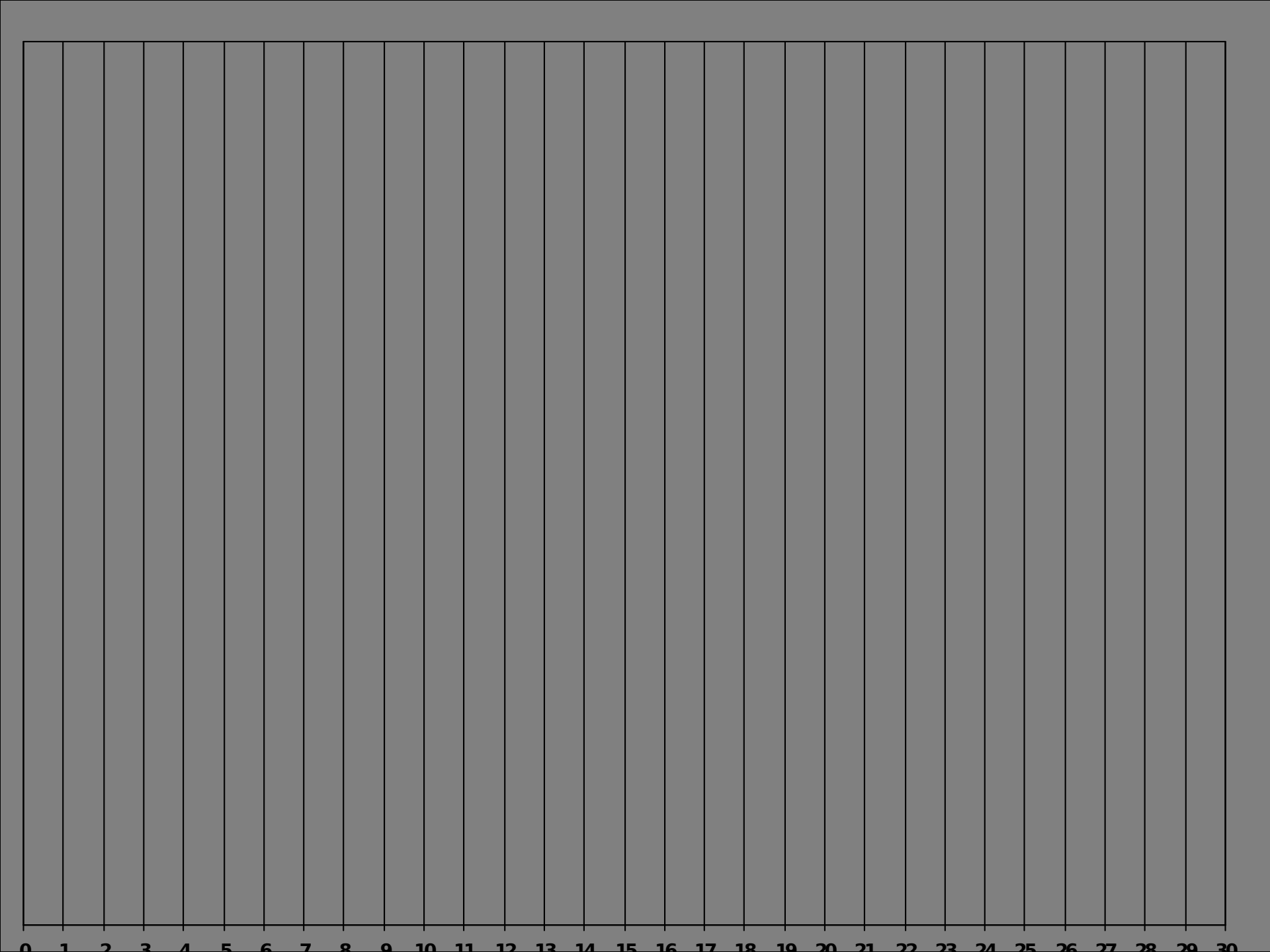
- LCS is small, surface combatant
- No interoperability with amphibious or MPF shipping
- Limited capability to support operational maneuver or sustainment operations
- LCS and HSV are distinct and separate programs that address different requirements

LCS vs. HSV

	HSV-2	LCS
Pax Capacity:	250	25
Deadweight:	680 ST	180 ST
Draft (max):	11 ft.	20 ft.
Vehicle Sq:	14,000	Not Reqd.
Ramp:	70 ton	Not Reqd.

Ref: HSV-2 actual specifications versus LCS Flt 0 Threshold Critical Design Parameters (10 Feb 03)

BACK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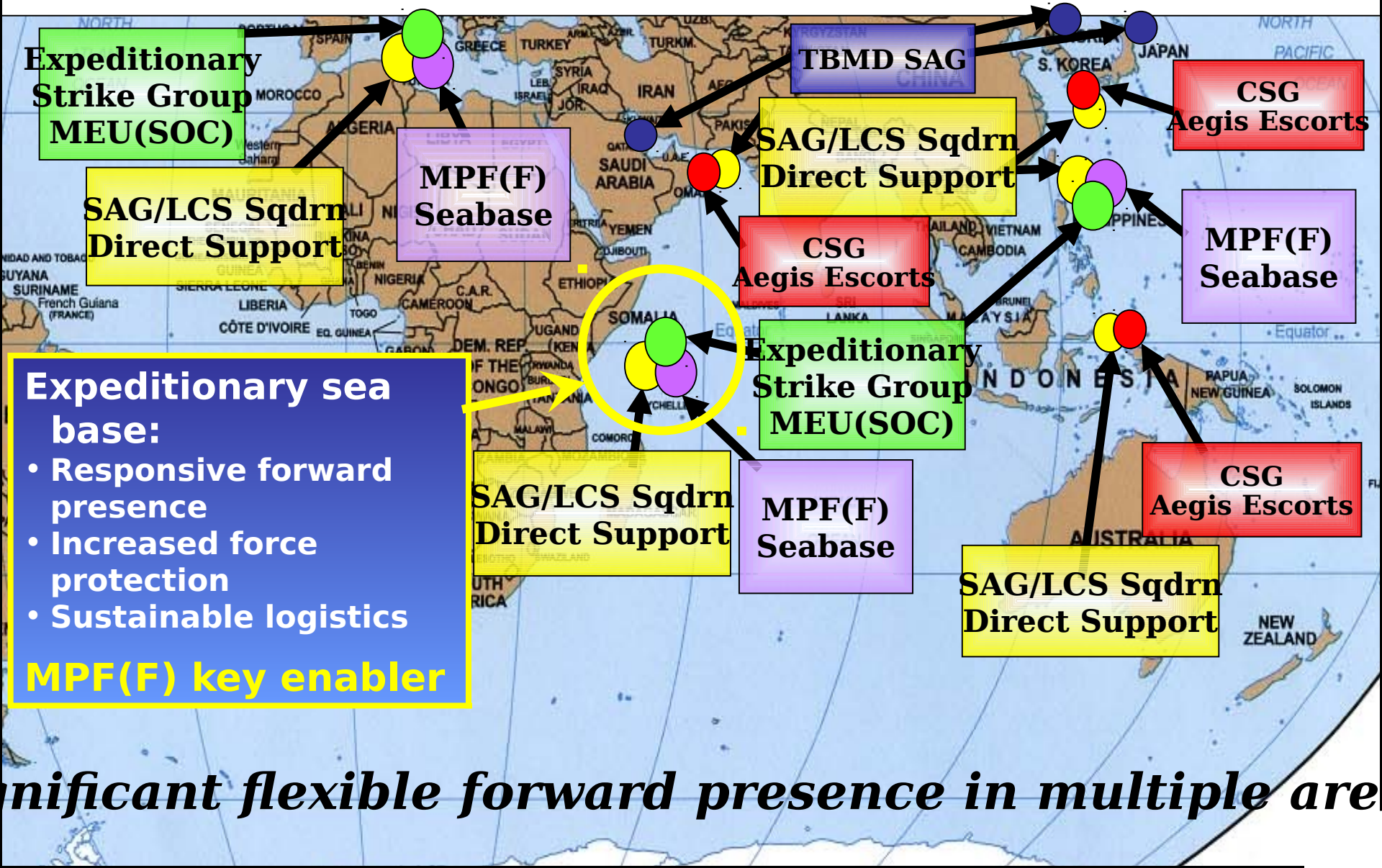
The Global CONOPs 2020

Expeditionary seabase deployed theater detail



nificant flexible forward presence in multiple are

JOINT VENTURE (HSV-X1)

WESTPAC EXPRESS

SWIFT (HSV-2)

SPEARHEAD (TSV-1X)

BACK

THE MPF FUTURE REQUIREMENTS BOX (FORCE STRUCTURE)

TAH (HOSPITAL SHIP)

EXPANDED 'FAMILY' AND SEABASING REQUIREMENTS

AFLOAT STAGING BASE

LEVEL III AFLOAT CARE

EXPANDED DRAFT OSD MPF F AOA GUIDANCE

MCM SUPPORT

DRAFT OSD MPF F AOA GUIDANCE

MPF F MNS REQUIREMENTS

REPLACE EXISTING SHIPS & ASSOCIATED LIGHTERAGE

Joint C2 Interoperable Medical care consistent w/ the mission ISO the ATF

AIMD TO PROVIDE MAINT SPT FOR STOVL JSF

REPLACE AVIATION LOGISTICS SUPPORT SHIP (TAVB)

HIGH SPEED VESSELS

MCM SHIP

AFLOAT STAGING FOR SOF & EXPEDITIONARY FORCES

JOINT COMMAND & CONTROL

JSF VARIANT SHIP

ESS

MPF(F) "SYSTEM OF SYSTEMS" CHARACTERISTICS

Cargo characteristics

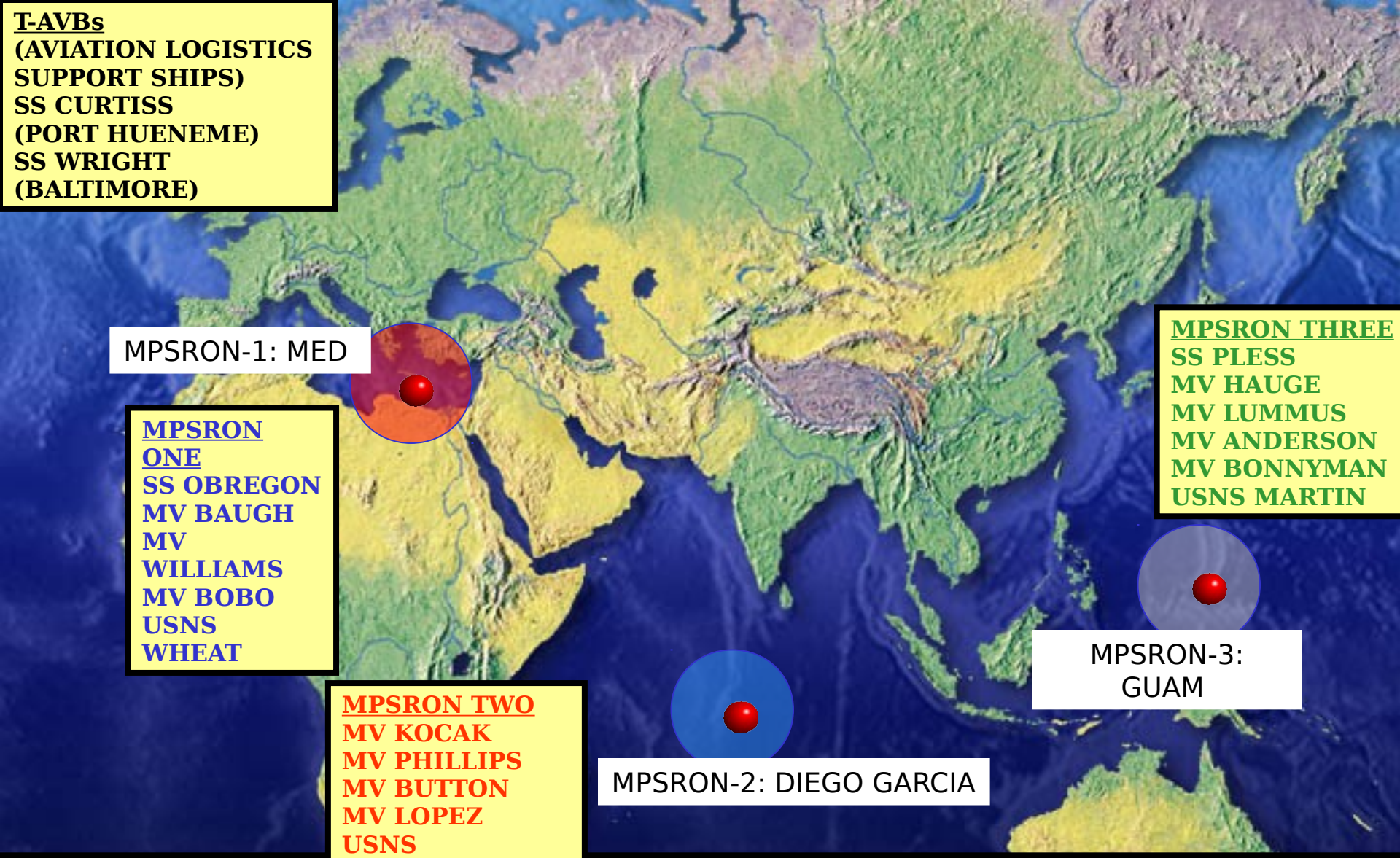
- Stowage of equipment and sustainment for MPF(F) MEB
- Selective access and offload for sea-based component equipment and supplies
- Advanced logistics information systems

Seabase characteristics

- Operational & underway air and surface craft interface
- Habitability for substantial expeditionary forces
- Operational C4ISR to allow interoperability
- Cargo replenishment/repackaging capability
- High-throughput replenishment capability

WHAT WE KNOW ABOUT MPF(F)

- An MPF(F) sea-based capability is achievable within the state of the art
- Continuing RDT&E mitigates risk and may lower cost for potential key systems
- Technical risk areas (and alternate solutions):
  - Surface craft external interface (well deck alternative)
  - Heavy cargo transhipment node (operational alternative)
  - At-sea FIE marriage (operational alternatives)
- Operational risk areas (sensitivity analysis):
  - Sea-based sustainment for forces ashore
- Cost is still an issue
  - Organic lighterage requirements



MPF SQUADRON LOCATIONS

MPF(F) AOA PREP WORK IN PROGRESS

- **Sizing the MEB (USMC action in progress)**
- **Determining candidate operational scenarios (OPNAV/MCCDC/HQMC/CNA work in progress)**
- **Developing operational models (CNA/HQMC/MCCDC work in progress)**
  - **Build on MARS, DON Lift II Update, and LHA(R) AoA analyses**
- **Developing logistics models (HQMC/MCCDC/CNA work in progress)**
- **System/platform concept design teams established (NAVSEA/OPNAV/CNA work in progress)**